CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Excavation, etc., La Porte, Tex., C. A. Barbour, et al, Houston, total est. $15,000,000.

Hotel, Oklahoma City, Okla., C. F. Colcord, plans, $4,000,000.

Apartments, Wash., D. C., H. Bralove (owner and builder), soon takes subcontracts, $3,500,000.

Store, theatre, office, New York, N. Y., Jerroid Holding Co., plans, $2,500,000.

Office and garage, San Antonio, Tex., J. M. Nix, revised plans, $2,000,000.

Office, Los Angeles, Calif., Southern California Edison Co., plans, $2,000,000.

Department store, Dallas, Tex., Titche-Gettinger Co., bids in August $1,500,000 or more.

School, Tulsa, Okla., sketches, $1,500,000.

Loft, office, store, New York, N. Y., Estate of W. DeForrest Manice, c/o Clifton & Russell, archts., $1,200,000.

High school, Lynn, Mass., City, plans, $1,000,000.

Club, store and theatre, Newark, N. J., Steuben Club of Newark, Inc., revised plans, $1,000,000.

Apartment, New York, N. Y., Hood Building Corp., plans, $1,000,000.

Dormitories, Delaware, O., Ohio, Wesleyan University, plans, $1,000,000.

Historical, Chicago, Ill., Chicago Historical Society, sketches, $1,000,000.

Office, Kansas City, Mo., owner, c/o S. B. Tarbet, archt., plans, $1,000,000.

Bids Desired

Office, Ottawa, Ont., Sept. 5, by S. E. O'Brien, secy. Dpt. P. Wks., $4,000,000.

Produce terminal, Providence, R. I., July 27, by Produce Wholesale Food Terminal, c/o architects, $3,000,000.

Theatre and apartment, Greenwich, Conn., Lincoln Theatre Enterprise, Inc., taking bids, $2,000,000.

Apartment, New York, N. Y., Sept. 1, by Caul Realty Corp., $1,000,000.

Theatre and store, Ridgewood, N. J., North Oak Impvt. Co., taking new bids, $1,000,000.

Hotel, Phila., Pa., July 30, by P. M. Julian, archt., Wash., D. C., for Blackstone Hotel Co., $1,000,000.

Bids Received

High school, Brooklyn, N. Y., C. E. Dobbins, acting supt., general contract from T. G. Sperling Co. and others, totaling $2,074,897.

Public Bond Elections, coming and decided, are listed on Construction News page 48.

Contracts Awarded

Office and hotel, Newark, N. J., Lefcourt Realty Holdings, New York, separate contracts, $10,000,000.

Bridge, Rhode Island, Washington Bridge Comn., Providence, to Merritt, Chapman & Scott, New York, $2,984,000.

Waterworks, Springfield, Mass., Bd. Water Comrs. Contr. 11, to Winston & Co., Kingston, N. Y. and others, totaling $2,088,000.

Hotel, Newark, N. J., Majestic Holding Co., general contract to W. J. MacEvoy Constr. Co., est. $2,000,000.

Apartment, St. Louis, Mo., Meyer Finkelstein, et al., to J. W. Kopman Constr. Co., est. $1,900,000.

High school, New York, N. Y., C. E. Dobbin, acting supt. general, contract to Psaty & Fuhrman, Inc. and others, totaling $1,649,035.

Theatre, Jersey City, N. J., C. W. & G. L. Rapp, archts., New York, to M. Mason & Son, Brooklyn, N. Y., for Jersey Blvd. Corp., est. $1,500,000.

Apartment, Los Angeles, Calif., United Pacific Securities Co., day labor and segregated contracts, $1,000,000.

Construction News of the Week

Waterworks

Proposed Work

N. J., Newark—North Jersey Dist. Water Supply Comn. revised plans by Fuller & McClintock, engrs., 170 Bway., New York, Wanaque Aqueduct. $800,000.

La., Mansfield—Mayor rejected bids June 26, 2,694 ft. 2- to 4-in. c.i. water mains and 2,460 ft. 6 and 8 in. vitr. clay sewers. Will readvertise. Noted June 7.

Mich., Detroit—Dpt. Water Supply, extending 9,965 ft. 6- to 12-in. mains in Six Mile Rd., Terry Blvd., Outer Dr., Old Town, Shaftsbury, and Warwick Aves. G. H. Fenkell, 176 East Jefferson Ave., engr.

Tex., Mercedes—Central Power & Light Co., c/o Frost Bldg., San Antonio, enlarging water filtration plant to 1 m.g. capacity. $60,000. Private plans.

Colo., Boulder—Pub. Serv. Co., 15th and Champa Sts., Denver, large reservoir to serve power plant, incl. spillway, dams, ditches. $40,000. A. F. Nordman, 960 Sherman St., Denver, in charge.

Bids Desired

N. Y., Long Island City—July 27, by J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Bway, Woodhaven Blvd., Charlotte Lane, 84th Rd., 37th, Jay, 25th, Beech, Laburnum and 72nd Aves., 40th, 44th, Kennedy, 117th, 146th and 159th Sts.

N. Y., New York—July 31, by J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., subsurface booster pumping station, at West 246th St. between Delafield Ave. and Fieldston Rd., Bronx Boro.

N. J., South Orange—Aug. 15, by Water Com. Bd. Village Trustees, Village Hall, multiple unit, Zeolite Water Softening Plant. I. T. Redfern, village engr.; adv. E. N.-R. July 26.

Pa., Neville Twp. (Coraopolis P. O.)—Aug. 7, by Bd. Comrs., Twp. Hall, 25,000 ft. 12 in. and 8,000 ft. 6 in. c.i. water mains; 6,300 ft. 8 in. sanitary sewers. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.; adv. E. N.-R. July 26.

Pa., Phila.—July 31, by Dpt. P. Wks., Bureau of Water, engine room floor, Contr. 931, and plumbing, Contr. 932, Torresdale Pumping Station; 24 in. check valves, 16 and 24 in. valves and specials, Contr. 933; 30 in. steel water pipe, Rising Sun Ave., Contr. 934; 205 tons 3- to 36-in. c.i. water pipe, Contr. 935; stop valves, Contr. 936; 300 tons low pressure fire hydrants, Contr. 937.

Fla., Boca Raton—Aug. 15, by Mayor and Bd. Town Comrs., Town Hall, 500,000 g.p.d. water treatment plant, pumping station. H. S. R. McCurdy, 762 Lancaster Ave., Bryn Mawr, Pa., consult. engr.; adv. E.N-R. July 26.

La., Mansfield—Aug. 2., by J. S. Ament, engr., Mansfield, extending water works, incl. 14,160 ft. 4 and 6 in. c.i. pipe twenty-three 4 in. and six 6 in. fire hydrants in place; thirty 4 in. and eleven 6 in. each, gate valves and boxes.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

O., Cleveland—Aug. 1, by Comrs. Cuyahoga Co., 3,120 ft. 6 and 8 in. c.i. mains in Highland and Elmwood Dr., (Impvt. 1156). F. Williams, Court House, engr.

Ind., Salem—Aug. 6, by Bd. Town Trustees, improving waterworks, incl. drilling two 10 in. wells, equipping same with electric driven water pumps, motors. O. W. Bowers, pres.

Mich., Detroit—July 31, by Hubbell, Hartgering & Roth, engrs., 2640 Buhl Bldg., 20,000 ft. 6 and 8 in. c.i. mains in Bon-Telegraph Subdivision, Dearborn Twp. near here, for Arthur Land Co., c/o engineers.

S. D., Yankton—Aug. 2, by J. W. Summers, city aud., low service pump houses on piers of Meridian Highway Bridge; water treatment plant, high service pumps, discharge pipe between plant and distribution system. $120,000. Burns & McDonnell Eng. Co., 402 Interstate Bldgs., Kansas City, Mo., engrs. Noted May 3.

Mo., Chillicothe—July 28, by E. Johnson, city aud., one 500 hp. water tube boiler with superheater, stoker; erecting stoker for above boiler; one 1,500 hp. feed water heater f.o.b. cars, etc. E. E. Harper, 4010 Penna. Ave., Kansas City, consult. engr.

Wash., Elma—City Council bids about Aug. 11, 500,000 gal. tank, engines, new mains. $25,000.

Calif., Oakland—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Calif., San Bernardino—City Council taking bids sinking new deep artesian well in bedrock, probably 1,500 ft., with steel casing 16 in. diam., to be reduced to 12 in. after 1st 600 ft., in Antil Basin.

Calif., San Bernardino—City Council taking bids 10 m.g. reservoir on summit Perris Hill, incl. removal 47,900 cu.yd. dirt and rock from area of 38,964 sq.ft. at bottom and 51,653 sq.ft. top. W. Starks, city water supt.

Calif., Tracy—Aug. 7, by G. L. Frerichs, city clk., 100,000 gal. steel tank and tower, water distributing system. To exceed $15,000. E. T. A. Bartlett, city engr.

Alta., Drumheller — Aug. 20, by H. A. Brown, secy.-treas., constructing pump pit and building, deep well, installing pump, laying water mains. Haddin & Miles, Ltd., Calgary, consult. engrs.

Contracts Awarded

Mass., Springfield — Bd. Water Comrs., reservoir-dam, Contr. 11 to Winston & Co., 277 Fair St., Kingston, N. Y., $1,437,000; tunnel, to Frazier-Davis Co., Arcade Bldg., St. Louis Mo., $651,000. Noted July 19.

N. Y., Albany—Bd. Water Supply, Alcove Dam, to Winston & Co., Kingston, $747,449. Noted June 28.

See proposal advertising on page 122

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TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Waterworks engineers and superintendents prefer to use Leadite for joints—*It assures them that the pipe line will be completed and a revenue producer well within the time allowance.*

THE speed and simplicity of use of Leadite is a big factor in rapidly expanding communities.

This illustration shown here is a scene from an installation where Leadite was used with c. i. bell and spigot pipe.

These lines are in one of the fastest growing cities in the South. The speed of Leadite jointing makes it possible to lay pipe fast enough to keep up with the new building and real estate expansion.

In addition, Leadite joints are permanent. For over 30 years Leadite has been tested and used under all pipe laying conditions and has proven completely satisfactory.

The saving of labor time and advantages of using Leadite produce a saving of over 75% of the cost of making the joints.

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Specify and use **LEADITE** It saves at least **75%**

Be sure it is **LEADITE** and accept no imitations

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years

THE LEADITE COMPANY
Land Title Building - - Philadelphia, Pa.

NO CAULKING

Waterworks (Continued)

N. J., Fair Lawn—Boro Council, deep well for waterworks, to New Jersey Artesian Well Drilling Co., 310-5th Ave., Paterson, at $4.25 to $7.50 per ft. Noted July 12.

O., Cincinnati—For 16,025 ft. 6- to 16-in. c.i. mains in Langdon Farm Rd., and 77,274 ft. 6- to 12-in. ci. l. Water Supply Line 30, Dists. 1 and 8, to Crumley, Jones & Crumley, 311 Temple Bar Bld., $28,414 and $130,428 respectively est. $34,000 and $144,276 respectively lining Eastern and Western Hills Water Tanks, to Rust Eng. Co., 311 Ross St., Pittsburgh, Pa., $41,231, est. $45,000. Grand total $200,073.

O., Cleveland—Cuyahoga Co., mains in Lindale Rd. (Impvt. 163), to J. Kalill & Jackson, Triskett Rd., $21,049. Noted July 19.

Ill., Chicago—Bd. Local Impvts., City Hall, water service pipes in West 79th, 80th and 81st Places, West 80th and 81st Sts., Ardmore, Claremont, Peterson, Emerald Euclid, Constance, Bennett, North Neva, Ignatius, Schreiber, South Homan, Turner, South Trumbull and South St. Louis Aves., to Washington Plumbing & Heating Co., 481 North Halsted St.; Honore and South Lincoln Sts., North Rutherford, Normandy, Natoma; Nashville, North Kedzie, Woodland and Duval Aves., to Walsh & Metzger, Inc., 6828 South Chicago Ave.; West 63rd St., East End, North Merrimac, Cornell, Ridgeland and Creiger Aves., to P. J. Collins Co., 5521 Bway.; West 83rd, 84th, 99th, 100th, 101st and 102nd Places, West 83rd, 84th, 85th, 100th, 101st, and 102nd Sts., Oakley, Claremont, South Irving and Princeton Aves., to G. D. Hardin, 3130 Indiana Ave.; West 70th Pl., West 69th, 70th and 71st Sts., to Reliance Plumbing Co., 461 North Halsted St.

Ill., Winfield—For 6- to 10-in. c.i. mains, to Allied Contractors, Inc., 80 East Jackson Blvd., Chicago, $41,950.

Sewers

Proposed Work

R. I., Providence—Sewage disposal plant, Fields Point Stct. T. J. H. Pierce, City Hall, engr.

N. J., Lodi (Ind. br. Hackensack)—Twp. Com., sewerage system in sections east of New Jersey and New York R.R. $50,000. A. Noack, 236 Main St., Hackensack, twp. engr.

N. J., Lyndhurst (br. Rutherford)—Storm and sanitary sewers. T. F. Bowe, 110 William Sts., New York, consult. engr.

N. J., Bergenfield—Joint Bd. Councils Bergenfield and Dumont, Boro Hall, Dumont, soon takes new bids altering sludge bed at joint sewerage treatment plant. $65,000. Former bids rejected. T. F. Bowe, Association Bldg., East Rutherford, engr. Noted July 19.

N. J., Nutley (br. Newark)—Bd. Comn., Town Hall, sewer in Bloomfield Ave. $60,000. G. R. Hartley, town engr.

N. J., Saddle River—Twp. Com., Township Hall, sewerage system in Roseville Dist. $97,000. A. Noack, 236 Main St., Hackensack, twp. engr.

O., Columbus—For 1,140 ft. 72 in. and 1,920 ft. 66 in. brick or segmented concrete, 4,740 ft. 30- to 72-in., vitr. sewers in Northwood Ave. $135,523. R. H. Simpson, ch. engr.

Ill., Bartlett—Sewers, sewage treatment plant. $119,000. Suhr, Berryman, Peterson & Suhr, 130 North Wells St., Chicago, engrs. Noted July 14.

Ill., Fox River Grove—Sewers, sewage treatment plant. $143,000. Suhr, Berryman, Peterson & Suhr, 130 North Wells St., Chicago, engrs.

Bids Desired

Mass., Boston—Aug. 2, by Dpt. P. Wks., sewerage works in Hyde Park; Aug. 3, in Dorchester. $25,000. J. H. Sullivan, comr.

Mass., Concord—July 31, by Metcalf & Eddy, engrs., Statler Bldg., Boston, 4 mi. vitr. sewers, Contr. 2, for Town. Noted July 19.

N. Y., Ossining—Aug. 7, at office L. H. Acker, village clk., Municipal Bldg., storm drains in Ryder Rd. and Eastern Ave., adv. E.N.-R. July 26.

N. J., Newark—July 24, by Bd. Freeholders Essex Co., Hall of Records Bldg., drainage system in Essex Falls, Caldwell and Irvington. $50,000. J. Stickel, Hall of Records Bldg., co. engr.

N. J. Newton—Aug. 13, by Town Com., Spring St., H. S. Masters, clk., altering, constructing additions at Sparta and Clinton St. Sewage Treatment Works, T. F. Bowe, 110 William St., New York, consult. engr.; adv. E. N.-R. July 26.

N. J., Ridgefield Park—July 24, by Bd. Village Comrs., Municipal Bldg., in East Side Sewer, Sect. 3. $25,000 appropriated, T. R. Boswell, 160 Johnson Ave., Dumont, village engr.

Pa., Ambridge—Aug. 6, by Boro, Boro Bldg., 804 ft. 20 and 24 in. c.i. and 7,448 ft. terra cotta sewer from Ohio River over 19th St. and Duss Ave., Contr. 1; 4,934 ft. 6- to 24-in. terra cotta sewer in Duss Ave., 11th and 10th Sts. Contr. 2. A. W. Johns, boro mgr.

Pa., Neville Twp. (Coraopolis P. O.)—See "Waterworks."

Md., Towson—Aug. 6, by Comrs. Baltimore Co., Court House, sewers in vicinity Arbutus and Hale-Thorpe, Contr. 12. S. A. E. Walden, ch. engr.; adv. E. N.-R. July 19 and 26.

Ky., Paducah—Aug. 7, by E. R. Bradshaw, comr. P. Wks. sewerage system in Zone 4-A, Dist. 3, incl. 71,020 ft. 8- to 72-in. pipe, 77,940 ft. house service line, 193 manholes, 390 inlets, 14 junction structures. Noted July 5.

Mich., Dearborn—Aug. 1, by M. A. Stevens, city clk., 16,790 ft. 12- to 48-in concrete sewer in Lateral Dist. 23. R. H. Erley, city engr.

Mich., Pontiac—July 28, by City Clerk, LeBaron Farm Subdivision Storm Sewer, 5,899 ft. 36- to 66-in. concrete, 8,287 ft. 12- to 24-in. double strength vitr. pipe, 58 manholes, 120 catch basins. J. R. Pollock, city engr.

Ill., Chicago—Aug. 2, by M. J. O'Brien, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., West Side Sewage Treatment Works, Div. P. T. J. Crowe, pres.; adv. E.N.-R. July 26.

Ill., Winthrop Harbor—July 30, by Bd. Local Impvts., sanitary sewers. C. Fago, village clk.; adv. E.N.-R. July 26.

Minn., Alexandria—Aug. 16, by H. S. Campbell, city clk. **(A)** 2,605 ft. 8- to 18-in vitr. pipe, 888 wyes and tees, 124 manholes **(B)** 45,035 ft. 8- to 18-in. vitr. pipe, 888 wyes and tees, 124 manholes; **(C)** Imhoff tanks, pumping station and force main. $100,000. S. A. Siverts, 454 Sexton Bldg., Minneapolis, engrs. Noted June 28.

Minn., Morris—Aug. 8, by F. E. Ware, city mgr., 6,443 ft. 15 in. vitr. sewers, 18 manholes, diversion manhole, settling plant, 2 sludge beds. L. P. Wolff, 903 Globe Bldg., St. Paul, engr. Noted June 28.

N. D., Jamestown—Bids about Aug. 15, sewage disposal plant, auxiliary piping. $120,000. W. E. Buell & Co., Grain Exch. Bldg., Sioux City, Ia., engrs. Noted July 12.

Tex., Houston—Aug. 15, at office City Secretary, storm sewer in Yale St. and in gully between Oxford and Beverly Sts. O. F. Holcombe, mayor; adv. E. N.-R. July 26.

Tex., Weslaco—Aug. 10, by City, D. E. Kirkan, mayor, 2 story, brick, rein.-con. filteration plant. $40,000. W. E. Anderson, San Benito, engr.

Calif., Truckee—F. S. Powell, secy. Truckee Sanitary Dist., taking bids sewage disposal plant, outfall sewer. $25,000 or more.

Ont., Toronto—July 27, by W. D. Annis, clk. Scarborough Twp., 125,000 lin. ft. 21- to 54-in. trunk sewer Contras. G., H. and K. $125,000. James, Proctor & Redfern, 36 Toronto St., engrs.

Contracts Awarded

Mass., Springfield—City, Street Engineering Dpt., City Hall, general contract 1 story, brick, pumping station plain found., to F. T. Ley & Co. Inc., 20 Providence St., Boston, $87,000—pumping equipment, to Warren Steam Pump Co., 101 Milk St., Boston, $28,584.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Sexton Pl., to C. Turiano Contg. Co., 2911 Coddington Ave., $8,080—Barnes Ave., to Trebell Contg. Co., $3,140—Stadium Ave., to Slack & Slack, 134 Westchester Sq., $101,832—Kings College Pl., to P. Bruno, 1659 Holland Ave., $3,143. Grand total $116,195. Noted June 14.

N. Y., White Plains—Westchester Co. Sanitary Sewer Comn., 3 mi. Mamaroneck River Valley Trunk Sewer, to A. Gregorio & Co., 1121 Neil Ave., New York, $226,408.

N. J., Essex Fells—Bd. Boro Council, sewers in Fells Welsh, Hillbury, Oldchester and Hawthorne Rds., to Amer. Utilities Contg. Co., 665 Broad St., Newark, $27,978. Noted June 28.

Miss., Iuka—Sewerage system, to E. J. Kirkpatrick, Florence, Ala., $21,919.

O., Akron—F. F. Swineford, dir. Serv., rein.-con. piling substructure Cuyahoga River Outfall Sewers, to T. E. McSchaffrey Constr. Co., 173 Forge St., $107,810. Est. $127,000.

O., Cleveland—Cuyahoga Co., 7,000 ft. 8- to 24-in. vitr. clay sewers in West Lake Rd. (Impvt. 1002), to E. P. Langenham Co., Marshall Bldg., $59,715.

O., Garfield Heights (br. Cleveland)—Village, sewer line in Shady Oak Rd., to D. Rossi-Marceletti Co., 11696 Willard Ave., Cleveland, $30,963.

Ark., Ft. Smith—For 2,720 ft. 3 to 5 ft. and 1,500 ft. 27 and 30 in. sewers, to McEachin & McEachin, Home Insurance Bldg., Little Rock, $78,542. Est. $84,000. Noted June 21.

Tex., Houston—City, c/o O. F. Holcombe, mayor, sanitary and storm sewers in Taum St. and Dennis Ave., to C. K. Horton, 2202 Clay Ave., $23,526. Est. $25,000.

Calif., Los Angeles—Los Angeles Co. Sanitation Dist. 2, 9,500 ft. 39 in. rein.-con. sewer from Vinvale to Randolph Sts., to Bebek & Brkich, 425 West 78th St., Los Angeles, $113,035.

Waste Disposal

Bids Desired

W. Va., Follansbee—July 31, by City Manager, and R. G. Bollinger, city clk., 25 ton high temperature garbage incinerator plant.

Tex., Houston—Aug. 1, by City, incinerator, 10 ton per hr. capacity. $75,000. J. C. McVea, city engr.

Contracts Awarded

N. J., Paterson—Bd. P. Wks., City Hall, incinerator, general contract plumbing, electric and conveyors, to Maggi & Schoonover, 165 Market St., Paterson, $278,750; sheet metal and ventilating to Universal Sheet Metal Co., 4014 Park Ave., New York, $17,200. Noted June 21.

Bridges

Proposed Work

Conn., Newington—New York, New Haven & Hartford R.R Co. E. Gagel, ch. engr., New Haven, steel girder bridge with concrete abutments, to exceed $25,000.

N. Y., Buffalo—Bd. Supervs. Erie Co., County Hall, rejected bids July 3, bridge, Project 41, Grand Island. Will readvertise. G. C. Diehl, Ellicott Sq., c/o engr. Noted June 28.

Ia., Cedar Rapids—Rejected bids repairing, waterproofing bridge, on 16th St. Will readvertise. F. E. Young, City Hall, engr. Noted July 19.

Okla., Francis—State Hy. Dept., Oklahoma City, preliminary plans 2 span 300 ft. steel truss bridge on piers over South Canadian River, Pontotoc Co., near here. $75,000. C. R. Mandigo, hy. engr.

Calif., Reedley—Fresno Co. (Fresno) 16 span 40 ft. bridge, 21 ft. roadway over Kings River. $125,000. C. P. Jensen, Fresno, co. surv.

Ont., Michipicoten—See Unclassified."

Bids Desired

Vermont—July 27, by State Hy. Dpt., Montpelier, bridges, in Sangate, Arlington and Stamford; rein.-con. paving 2.5 mi. in Barre. S. B. Bates, State House, Montpelier, state engr.

Massachusetts—See "Streets and Roads."

New York—See "Streets and Roads"

Maryland—July 31, by State Roads Comn., Baltimore, double span rein.-con. girder bridge over Georges Creek, Contr. A-54, Allegany Co.—triple span rein.-con. arch bridge over Catoctin Creek, Contr. F-101, Frederick Co. J. N. Mackall, chn.

W. Va., Charleston—Aug. 9, by Kanawha Co. Court, Court House, 90 ft. span steel pony truss superstructure Lens Creek Bridge—80 ft. pony truss steel superstructure Slaughters Creek Bridge—two 40 ft. steel I-beam span superstructure Humphries Bridge—120 ft. steel truss superstructure Cobb Bridge. R. N. Moulton, clk.

Tennessee—State Dept. Hys. & P. Wks., Nashville, bids about Aug. 10, concrete, steel bridge over Hiwassee River, Meigs Co. H. F. Berry, hy. comr.

Tennessee—See "Streets and Roads."

Wisconsin—See 'Streets and Roads."

Kan., Liberal—Aug. 3, by Clerk Seward Co., 48 span 21 ft. timber trestle, concrete and wood flooring, Federal Aid Project 360-A, 14 mi. from here. B. McPhaill, Liberal, co. engr.

Texas—Aug. 1, by G. Gilchrist, state hy. engr., Austin, rein.-con. bridge on Hy. 12,

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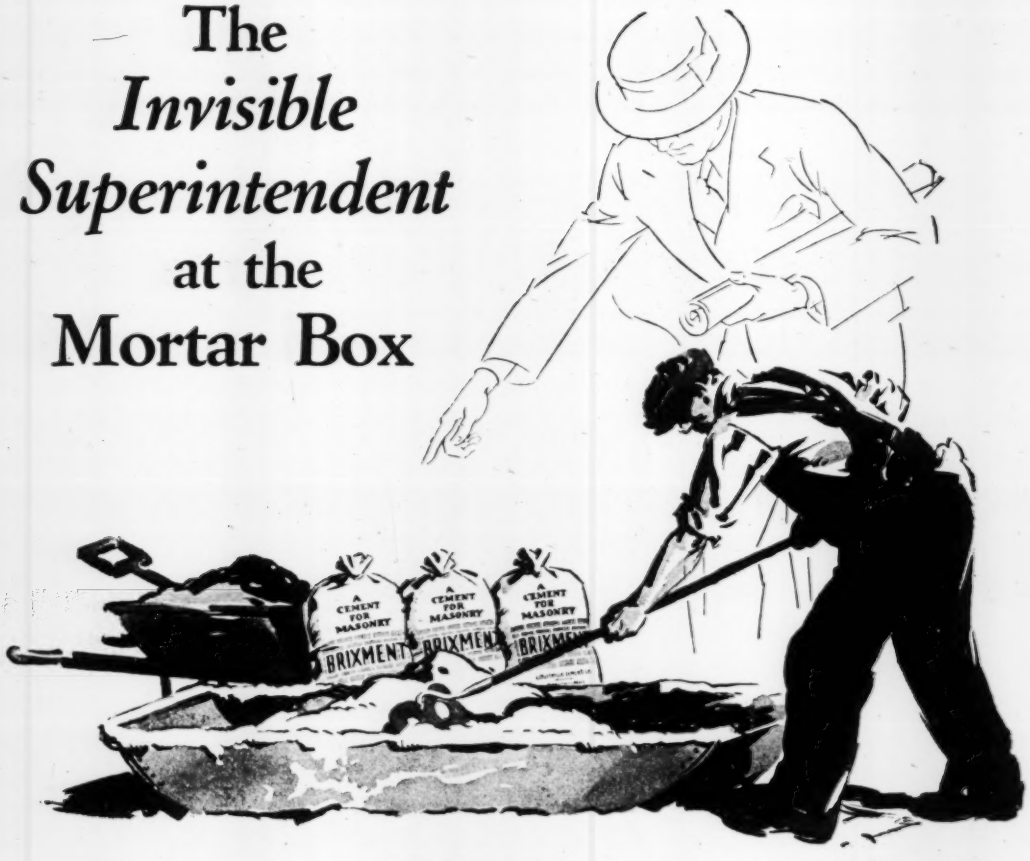
The *Invisible Superintendent* at the Mortar Box



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The use of BRIXMENT, however, is your assurance that all mortar will be uniform in strength and color and that specifications will be accurately followed. If over-sanded, BRIXMENT mortar works short and, since there is no lime in the mix, the necessary plasticity can be secured only by using the proper amount of BRIXMENT. *Handbook on request.* Louisville Cement Co., *Incorporated,* Louisville, Kentucky.

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BRIXMENT

for Mortar and Stucco

Bridges (Continued)

Victoria Co., $27,000—rein.-con. bridge, approaches Hy. 84, Kent Co., $63,000—rein.-con. bridge on Hy. 3, Harris Co., $36,000.

Texas—Aug. 2, by G. Gilchrist, state hy. engr., Austin, rein.-con. girder bridge Hy. 9, McCulloch Co., $26,000, 4 steel, rein.-con. bridges on Hy. 43, Milam Co., $112,000.

Tex., Ft. Worth—Aug. 15, by City, c/o O. E. Carr, mgr., rein.-con. bridge, 36 ft. roadway across Lake Worth. $350,000. L. L. Lewis, Ft. Worth, engr. Noted Jan. 26.

Oklahoma—Aug. 14, by State Hy. Dept., Oklahoma City, 6 span 146 ft. rein.-con. bridge at Alva, Woods Co., $30,000—2 span 200 ft. steel truss bridge on concrete piers at Atoka, Atoka Co. $30,000—2 span 190 ft. steel truss bridge on concrete piers at Mill Creek, Johnston Co. $30,000—2 span 200 ft. steel truss bridge on piers at Walters, Cotton Co. $27,500—1 span 120 ft., steel truss bridge on concrete piers at Beaver, Beaver Co. $28,000—7 span 142 ft. rein.-con. bridge at Smithville, McCurtain Co. $28,000. C. R. Mandigo, hy engr.

Okla., Jay—Aug. 13, by D. L. Chandler, clk. Delaware Co., 4 span 85 ft. rein-con. bridge. $26,160. T. P. Clouts, Muskogee, engr.

Washington — Aug. 14, by State Hy. Comn., Olympia, 1,400 ft. bridge over Skagit River, Marblemount, Skagit Co.; 1,010 ft. steel bridge over Nooksack River, Nugents Crossing, Watcom Co. S. J. Humes, hy. engr.

Contracts Awarded

Vermont — State Hy. Dpt., Montpelier, bridges in Bridgewater, to D. B. Riggs, Troy, N. Y., $6,968—Troy, to Kittridge Bridge Co., Concord, N. H., $4,177—Barre, to J. M. Swan & Son, St. Johnsbury, $15,328—bridges in Poultney and Castelton, to D. E. O'Brien Contg. Co., Whitehall, N. Y., $12,364 and $12,371 respectively. Grand total $51,208. Noted July 5.

Vermont — State Hy. Dpt., Montpelier, bridges in Pawlet, Dorset and Rupert, to T. Hardy, North Adams, Mass., $17,135—3 bridges in Vershire, to J. W. Swan, St. Johnsbury, $29,498—2 bridges in Manchester, to J. B. Stebbins, North Adams, Mass., $14,195—bridge in Readsboro, to R. W. Bookers Co., Worcester, Mass. $17,418. Grand total $78,246.

Rhode Island—Washington Bridge Comn., State House, Providence, highway bridge, approaches over Seekonk River, between Providence and East Providence, to Merritt, Chapman & Scott, 17 Battery Pl., New York, $2,984,000. Noted July 12.

N. Y., Buffalo—Erie Co., County Hall, bridges on Project 44, at Alden, to W. S. Meserve, Westbrook Apartments, $30,560—Project 30, Concord, and Project 9, Evans, to Stapel Mumm & Beals Corp., Camp Rd. and Erie R.R. Hamburg, $5,400 and $43,800 respectively—Project 29, at Marilla, to A. Stutzman, 27 Laverack Ave., Lancaster, $2,927. Grand total $82,777. Noted June 28.

Pa., Treveskyn — Comrs. Allegheny Co., City—County Bldg., Pittsburgh, rein.-con., steel bridge over Millers Run, to J. W. Hansen Co., Wabash Bldg., Pittsburgh, $24,524. Est. $29,000. Noted July 5.

North Carolina—State Hy. Comn., Raleigh, rein.-con. bridge on Project 5010, Alamance Co., to T. A. Loving & Co., Goldsboro, $27,648—on Project 3360, Cumberland Co., to Kiker & Yount, Reidsville, $42,186—on Project 621, Cabarrus Co., to E. A. Wood & Co., Andrews, $32,481—rein.-con. bridge, Perquimaus Co., to J. S. Bowers, Whiteville, $136,757. Grand total $239,072. Noted July 5.

Miss., Kosciusko — See "Streets and Roads."

Miss., Meadville — See "Streets and Roads."

Miss., Mendenhall — See "Streets and Roads."

Miss., Merrill—George Co., steel, concrete highway bridge, to Austin Bridge Co., 1813 Clarence St., Dallas, Tex., $125,000.

Kentucky—State Hy. Dept., Frankfort, steel superstructure bridge over Obion Creek, Hickman Co., to Illinois Steel Bridge Co., Jacksonville, Ill., $8,211—concrete substructure and approach spans, to F. G. Hall, Martin, Tenn., $36,838. Noted July 7.

Kan., Fredonia—Wilson Co., one 80 ft. one 110 ft. concrete arch and three 30 ft. deck girder span bridges, Project 557, to J. W. Vance, & Sons, Parsons, $31,838.

Kan., Lyons—See "Streets and Roads."

Okla., Oklahoma City—For 6 span 600 ft. rein.-con. bridge, on Robinson St., to F. E. Watson, 901 McLish St., Ardmore, $194,170. Est. $205,000. Noted Dec. 15.

California—State Hy. Comn., Sacramento, 3 rein.-con. girder bridges over South Fork of Yuba River, on Victory Hy., Placer Co., to Coolidge & Scott, Minden, Nev., $34,291—concrete girder overhead crossing, consisting four 30 ft. spans on concrete bents over Southern Pacific R.R., near Weimar, Placer Co., to Butte Constr. Co., San Francisco, $25,546. Noted June 21.

Ont., Hamilton—T. T. Irving, engr. (Central Region) Canadian Natl. Rys., New Union Sta., Toronto, 4 concrete, steel bridges, excavation for tracks, grading, all in connection with new Hamilton Station, to R. C. Huffman Constr. Co., 331 Bay St., Toronto. Est. $500,000. Noted June 21.

Railways

Proposed Work

Texas—Gulf, Texas & Western Ry. Co., c/o P. E. Bock, genl. supt., Jermyn, preliminary surveys extending 70 mi. main line from Seymour to Paducah. $200,000.

Bids Desired

Missouri—July 28, by Kansas City Southern Ry Co., A. N. Reese, ch. engr., 11th and Wyandotte Sts., Kansas City, railroad between Leeds and Grandview, incl. 1,079,000 cu.yd. excav., 2,440,000 lb. structural steel, etc.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Bourne—Standard Oil Co. of New York, Park Sq. Bldg., Boston, wharf, dolphins, dredging in Buzzards Bay. $25,000. Private plans.

Tex., Brownsville—Southwest Development Corp., c/o D. W. Royhensies, genl. mgr., Goshen, N. Y., irrigation plant, 7½ mi. main concrete canal, laterals, Grove Park, near here. A. E. Anderson, Brownsville, engr.

Tex., La Porte — C. A. Barbour, et al, 1st Natl. Bank Bldg., Houston, port development, incl. wharves, warehouses, railroad yards, other terminal facilities. Dredging for above, to Standard Dredging Co., 323 Security Bldg., Galveston. Total est. $15,000,000.

Okla., Ottumwa—Ottumwa Co. preliminary plans draining Neosho River bottom. $40,000. L. Lawrence, Miami, engr.

Bids Desired

N. Y., Buffalo—July 27, by G. F. Fisk, comr. P. Wks., dredging south side Buffalo River from Ohio St. Bridge, 600 ft. west to depth 23 ft. C. E. P. Babcock, Municipal Bldg., engr.

Pa., Phila.—Aug. 2, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North St., bridges, Contr. 60, 1928; crossings, Contr. 61, 1928.

Okla., Alex—Aug. 25, by W. T. Cloud, clk. Grady Co., drainage ditch, incl. 114,000 cu.yd. excav. 160 ft. 36 in. vitr. tile pipe, near here. $27,000. P. A. Little, Chickasha, engr.

Calif., Oakland—Aug. 3, by J. Kimball, secy. East Bay Municipal Utility Dist., 1924 Bway., waste channels, 12,770 cu.yd. excav., 9 bbl. cement, for East Bay Aqueduct and Lone Tree Evaporation Basin, Mokelumne Project.

Ont., Coburg—Aug. 2, by S. E. O'Brien, secy. Dpt. P. Wks., Ottawa, reconstructing Southwest Breakwater. $60,000.

Ont., Perth—Aug. 11, by E. R. Stedman, clk. Drummond Twp., Black Drainage Improvement, in Drummond and North Elmsley Twps. $125,000. J. P. Moore, Smiths Falls, engr.

P. E. I., Souris Harbor—Aug. 8, by S. E. O'Brien, secy. Dpt. P. Wks., Ottawa, Ont., repairing and placing stone at breakwater.

Contracts Awarded

Ohio — Comrs. Summit Co. (Akron), straightening, widening, deepening Tuscarawas River from Akron to point below Barberton, to F. C. Morgan, 215 East New York St., Indianapolis, Ind., $60,204. Est. $80,300. Noted July 19.

Tex., La Porte—See "Proposed Work."

Streets and Roads

Bids Desired

Massachusetts—July 31, by Dpt. P. Wks., State House, Boston, bituminous concrete paving 11,900 ft. hy. in Duxbury and Kingston—gravel and bituminous macadam paving 10,140 ft. Warwick—11,826 ft. Hadley—3,095 ft. Berkley and Freetown—bituminous macadam paving 4,521 ft. Randolph—20,067 ft. Templeton—rein.-con. bridge in Heath—repairing steel bridge in North Adams. W. F. Williams, comr.

Mass., Boston—July 30, by Dpt. P. Wks., recut granite block paving Ward 3, and July 31, sheet asphalt or bitulithic paving Wards 15 and 16. J. H. Sullivan, comr.

Mass., Boston—Aug. 1, by Dpt. P. Wks., sheet asphalt or bitulithic paving Harrison Ave., Wards 3 and 8. J. H. Sullivan, comr.

Mass., Cambridge (br. Boston)—July 30 (extended date), by Street Dpt., rein.-con. paving. $25,000. W. R. McMenimen, City Hall, supt. streets. Noted July 12.

New York—Aug. 6, by Bd. Hudson River Regulating Dist., 44 Howard St., Albany, 2.5 mi. bituminous macadam and 0.5 mi. dirt paving in Northampton Fulton Co. and Hope, Hamilton Co. E. H. Sargent, Albany, ch. engr.; adv. E. N.-R. July 26.

N. Y., Hornell—Aug. 1, by City, asphalt resurfacing 26,000 sq.yd. Canisteo and Seneca Sts.

N. Y., Long Island City—Aug. 1, by R. M. Patten, pres. Queens Boro, Queens Subway Bldg., grading Carolin and Bliss Sts.; repairing bulkhead and jetties near Beach 19th and Beach 14th Sts., Far Rockaway; 40 ft. boardwalk along ocean front from Beach 81st to Beach 56th Sts.

N. Y., New York—July 31, by J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., paving road leading to and around pumping station at 179th St. and Amsterdam Ave.

N. Y., Ossining—Aug. 7, at office L. H. Acker, village clk., Municipal Bldg., improving Emwilton Pl. and Wolden Rd.; adv. E.N.-R. July 26.

N. Y., St. George—Aug. 1, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete paving South Ave. from Staten Island Rapid Transit R.R. to Washington Ave.

New Jersey—Aug. 13, by State Hy. Comn., Trenton, grading, rein.-con. paving 62,539 sq.-yd. Route 5, Sect. 19A, Dover-Denville Rd., Morris Co.; and 89,918 sq.yd. concrete paving 21,261 sq.yd. Route 17-North, Sec. 5, (Route 2 Revision 1927) North Arlington-Rutherford Rd., Bergen Co., A. L. Grover, ch. clk.; adv. E. N.-R. July 26.

N. J., Green Bank—July 30, by Washington Twp. Comn., grading, graveling 30,000 sq.yd. Maxwell Pl. G. Thomas Jenkins, engr.

N. J., Lyndhurst (br. Rutherford)—Aug. 6, by Bd. Town Comrs., Town Hall, grading, curbing 6 in. bituminous macadam paving Copeland, Pennsylvania and 3rd Aves. $30,000. T. F. Bowe, Association Bldg., East Rutherford, town engr.

N. J., Milford—Aug. 2, by Hunterdon Co., Flemington, F. J. Dineen, clk., grading, penetration macadam, paving 34,643 sq.yd. Milford-Riegelsville Rd., Sect. 2. G. Davis, Whitehouse Station, engr.

N. J., Mountain Lakes—Aug. 2, by Bd. Boro Council, Boro Hall, concrete curbing, bituminous penetration macadam paving 3,587 ft. Briarcliff Rd. $50,000. F. T. Rubidge, boro engr.

Pennsylvania—Aug. 10, by State Hy. Comn., Harrisburg, rein.-con. and macadam paving 41 mi. 16 projects in Bedford, Bucks, Chester, Clarion, Columbia, Greene, Lancaster, Lawrence, Lebanon, Northumberland, Perry, Schuylkill, Washington and Westmoreland Counties. J. L. Stuart, secy. Hy. Dpt.; adv. E. N.-R. July 26.

Pa., Phila.—Aug. 2, by Dpt. P. Wks., Bureau of Highways, A. Murdock, dir., grading; asphalt paving; smooth dressed granite block and asphalt repaving; redressed granite repaving; widening South Market St., asphalt (heater method) resurfacing; steel for bridge; electrifying Penrose Ferry Bridge.

Maryland — July 31, by State Roads Comn., Baltimore, concrete shoulders, concrete paving 1 mi. Contr. M-115, and concrete paving 2 mi. Contr. M-99, Montgomery Co.—1 mi. Contr. F-112, Frederick Co.—graveling 2.5 mi. Contr. C-29, Calvert Co. J. N. Mackall, chn.

Md., Baltimore—Aug. 1, by Bd. Awards, concrete paving 10,560 sq.yd. Contr. 474, 10,000 sq.yd. alleys in Alley Contr. 129. N. L. Smith, hys. engr.

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Streets and Roads (Continued)

Md., Easton—Aug. 13, by Mayor and Council, concrete curbing, guttering 4,200 lin. ft. E. G. Kastenhuber, Jr., town engr.; adv. E.N.-R. July 26.

W. Va., Charleston—Aug. 2, by Kanawha Co. Court, grading, concrete paving 1 mi. Project 167—grading 1.5 mi. Project 224—3 mi. Project 222—1.5 mi. Project 185-B—1 mi. Project 220. R. N. Moulton, clk.

W. Va., Follansbee—July 31, by City Manager and City Clerk, grading, paving Linden, Neville and Highland Sts. $30,000.

W. Va., Lewisburg—July 28, by Greenbrier Co. Court, grading, paving 14 mi. 6 projects in Irish Corner Dist. J. K. Monroe, co. road engr. Noted May 24.

W. Va., Wellsburg—Aug. 1, by Brooks Co. Court, bank slag, granulated slag or sledged limestone surfacing Harmon Creek, Northview, Lowerys Lane and McAdoo Ridge Rds., bituminous surfacing 8,000 sq. yd. Eldersville Rd.

Alabama—Aug. 7, by State Hy. Comn., Montgomery, rein.-con. paving 3,216 sq.yd. Hy. S-348, Morgan Co.—concrete, rock asphalt, sheet asphalt or bituminous concrete on concrete paving 17.34 mi. S-351, Blount and Jefferson Counties—grading 13.28 mi. S-316 Jackson Co.—280,000 cu.yd. Hy. in Winston Co.—grading, bridging 121,174 cu.yd. Hy. S-170, Blount Co.—21 mi. S-304, Coosa and Chilton Counties—bridges in Escambia, Monroe, Fayette, Wilcox, Covington, Talladega, Dallas and Lowndes Counties. W. Finnell, hy. dir.

Ala., Birmingham—Aug. 10, by Bd. Revenues, Jefferson Co., grading, chert and 6 in. concrete paving 32.25 mi. hys. $290,500.

Ala., Mobile—Aug. 14, by Bd. Revenue & Road Comrs. Mobile Co., grading, drainage structures, bridging 34.973 mi. hys. J. B. Converse, Mobile, engr.

La., St. Bernard—July 31, by Supervs. Road Dist. 1, 906 Gravier St., New Orleans, concrete, concrete with steel reinforcing, or sandstone rock asphalt on asphaltic concrete paving Angela and Mehla Sts. from North Peters to St. Claude Sts. Address St. Bernard Parish Engineer, 517 Audubon Bldg.

Tennessee—Aug. 10, by State Dept. Hys. & P. Wks., grading 92.904 mi. roads in Lauderdale, Carroll, Marion, Decatur, Jefferson, Cocke, Montgomery, Robertson, Giles, Dickson, Hamilton, Hickman and Rutherford Counties—surfacing 105,633 mi. Davidson, Franklin, McMinn, Monroe, Obion, Weakley, Warren, Hamilton, Bradley, Bledsoe and Cumberland Counties—bridges in Meigs, Lewis, Rutherford, Cumberland, Montgomery, Davidson and Dickson Counties. H. Berry, comr.; adv. E.N.-R. July 26.

Tennessee—State Dept. Hys. & P. Wks., Nashville, bids about Aug. 10, grading 12 mi. Ripley-Henning Rd., Lauderdale Co. H. F. Berry, hy. comr.

Tennessee—State Dept. Hys. & P. Wks., Nashville, bids about Aug. 14, paving, probably concrete 10 mi. Union City-Dresden Rd., Obion Co. olling 27 mi. roads in McMinn and Monroe Counties. H. F. Berry, hy. comr.

Tenn., Selmar—Aug. 6, by McNairy Co., grading 6 mi. Selmer-Leapwood Rd.; 6 mi. Leapwood-Evansville Rd. $40,000. Bass-Roberts-Freeland Co., Independent Life Bldg., Nashville, engrs.

O., Akron—July 30, by F. E. Swineford, dir. Service, stone, granite curbing, concrete sidewalks, vitr. brick paving 7,950 sq.yd. Dover St., $71,400—9,200 sq.yd. Hawkins Ave., $65,000—6,100 sq.yd. Vinita Ave. et al., $57,600—6,900 sq.yd. Campbell St. $62,000—6,400 sq.yd. Glenwood Ave., $44,-900. E. A. Kemmler, Municipal Bldg., engr.

O., Canton—Bd. Control bids about Sept. 3, grading, curbing, sidewalks, paving 14th St. N. W. $25,000-$30,000. W. E. Sarver, City Hall, engr.

O., Parma Heights (br. Cleveland)—July 31, by Village, paving Parma Park Blvd. and Beresford Ave. To exceed $50,000. C. J. Conlin, 432 Penton Bldg., Cleveland, engr.

Ind., Auburn—Aug. 7, by Comrs. DeKalb Co., graveling Philip Rigg et al. Rd., Benjamin S. Miller Rd., Union-Grant Twp. Line Rd., Union Twp. E. Dawson, Auburn, aud.

Ind., Bedford—Aug. 7, by Comrs. Lawrence Co., constructing Lawrence Hunter Rd. $6,925, Mitchell and Lawrenceport Rd. $21,879, Mitchell and Bono Rd. $6,305, Lawrenceport Rd. $15,040. J. H. Taylor, aud.

Ind., Brazil—Aug. 7, by Comrs. Clay Co., brick paving 5,280 ft. Levi Louderback et al. Rd., Brazil Twp.; graveling 10,560 ft. O. L. Duncan et al. Rd., Harrison Twp. R. E. Barnhart, Brazil, aud.

Ind., Crown Point—July 30, by Comrs., Lake Co., concrete paving Erick Lund et al. Rd., North Twp. $84,800. W. E. Whitaker, Crown Point, aud.

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Ind., Greencastle—Aug. 6, by Comrs. Putman Co., concrete paving Oscar Obenchain et al. Rd. $48,518. W. E. Gill, Greencastle, aud.

Ind., Newport—Aug. 6, by Comrs. Vermillion Co., paving Samuel Elder et al. Rd., Helt Twp. $53,984. M. Lewis, Newport, aud.

Ind., Plymouth—July 30, by Comrs. Marshall Co., graveling Charles Gerard et al. Rd. $13,618, Gertrude Stout et al. Rd. $12,-416, both in Center Twp. O. H. Weber, aud.

Ind., Plymouth—Aug. 7, by Comrs. Marshall Co., graveling Emery S. Hite et al. Rd. $17,275, Clinton O. Beyler et al. Rd. $3,213. O. H. Weber, Plymouth, aud.

Michigan—Aug. 14, by St. Clair Co., at office E. R. Benkert, resident engr., concrete paving 2.076 mi. MO 77-31-C-1, 20 ft., for State Hy. Dept., Lansing.

Michigan—Aug. 22, by R. R. Havens, president engr., Jackson, widening, concrete paving 6.052 mi. FO 12-13C-1. Branch Co., 20 ft., for State Hy. Dept., Lansing.

Michigan—Aug. 23, by Calhoun Co., at office R. R. Havens, resident engr., Jackson, 20 ft. concrete paving 5.59 mi. FO 13-16 C-1, for State Hy. Dpt., Lansing.

Mich., Monroe—July 30, by J. H. Eber, city clk., one course concrete paving 12,600 sq.yd. Hollywood Dr., South Scott and East Lorain Sts. $35,000.

Mich., Plymouth—July 30, by A. J. Koenig, village mgr., grading, one course concrete paving 15,000 sq.yd. Starkweather Ave. $30,000. Hoad, Decker, Schoecraft & Drury, Ann Arbor, engrs.

Mich., Royal Oak (Ind. br. Detroit)—July 30, by R. B. Fleming, clk., one course concrete paving 30,000 sq.yd. $70,000. E. M. Shafter, Royal Oak, village engr.

Mich., White Cloud—Aug. 15, by Newaygo Co., at office Village Clerk, widening, concrete paving 5.416 mi. MO 62-21 C-1, and 1.611 mi. MO 62-8 C-2, 20 ft. H. C. Fleming, Grand Rapids, resident engr.

Mich., Wyandotte—July 31, by E. C. Bryan, city clk., grading, 8 in. one course concrete paving 17,000 sq.yd. 6th and 11th Sts., Central, Lindberg and Vassar Aves. $50,000. F. Conway, city engr.

Ill., Chicago—July 31, by City at office Bd. Local Impvts., City Hall, grading, curbing, guttering, sewers, 7 in. concrete paving 4 alleys—grading, curbing, guttering, sewers, 8 in. concrete, paving Avenue F, West 205th St., Hale, North Holmar, Dickens, South Artesian Aves.—grading, curbing, guttering, sewers, asphalt on 6 in. concrete paving West 58th, 100th, 101st and 102nd Sts., Avenue J, Fitch, Hood, South Keating, South Shore, South Paulina, Artesian and Campbell Aves.—grading, curbing, guttering, sewers, asphalt on 8 in. concrete paving West 87th St. and Elston Ave. M. J. Faherty, pres.

Ill., Monmouth—July 31, by Bd. Local Impvts., grading, curbing, guttering, paving 2 blocks East 1st St. $12,337; 3 blocks North 7th St. and East Boston Ave., $16,029. Kinsey Eng. Co., Pekin, engrs.

Wisconsin—July 31, by State, Grant, Iowa and Lafayette Co. Hy. Comn., Court House, Lancaster, crushed stone surfacing 7,830 cu.yd. F.A.P. 382-C, Fayette Co.—concrete paving 6,160 sq.yd. Div. Job 9309, North Madison St., Lancaster, Grant Co.—6,852 sq.yd. Div. Job 9310, Arena-Mazomanie Rd., Iowa Co.—Jones Bridge, incl. 22,930 lb. steel. T. W. Reilly, div. engr.

Wisconsin—Aug. 7, by State and Clark, Pierce, St. Croix and Polk Co. Hy. Comns., Eau Claire, graveling 3,300 cu.yd. Merrillan-Humbird Rd., Clark Co.—1,800 cu.yd. Maiden Rock-Elsworth Rd., 4,000 cu.yd. Ellsworth-Elmwood Rd., Pierce Co.—3,400 cu.yd. Deer Park-Amery Rd., St. Croix and Polk Counties. W. F. Baumgartner, div. engr.

Wis., Milwaukee—July 28, by Dpt. P. Wks., R. E. Stoelting, comr., vibrolithic concrete paving 37,123 sq.yd. Winton Dr., Keefe, St. Paul and East Euclid Aves., Center, Hopkins and 24th Sts. $130,760.

Ia., Jefferson—Aug. 7, at office Auditor Greene Co., graveling 23.75 mi. Projects 44 to 48 (inclusive).

Ia., Keokuk—Aug. 3, by City, paving 30,000 sq.yd. C. J. Nelson, city engr. Noted July 12.

Ia., Spirit Lake—Aug. 7, at office Auditor Dickinson Co., graveling 19 mi. secondary roads. R. A. Furman, Spirit Lake, engr.

Minnesota—Aug. 14, by State Hy. Comn., St. Paul, **(F.A.P. means Federal Aid Project and S.P., State Project)**, grading 389,000 cu.yd. S.P. 10-53, F.A.P. 40—grading 253,-000 cu.yd. S.P. 12-31, F.A.P. 118, and widening Bridge 4765—graveling 18,500 cu.-yd. S.P. 10-54, Sect. 3—concrete paving 18,978 sq.yd. S.P. 7-37, Divs. A. and B.

Kan., Yates Center—Aug. 9, by Clerk Woodson Co., grading, bridging 6.22 mi. Sect. B, and 1.824 mi. Sect. C, Project 367. H. O. Ashley, Court House, engr.

Mo., St. Louis—Aug. 14, by Bd. P. Wks., City Hall, guttering, concrete paving 1,300 sq.yd. and asphaltic concrete paving 4,500 Ellenwood and Neosha Sts. $26,840—asphaltic concrete paving 2,260 sq.yd. Rosa Ave. $7,360—3,330 sq.yd. Parkwood Pl. $19,000—vibrotilthic concrete paving, 2,965 sq.yd. Frey St. $14,440—1,890 sq.yd. Edna St. $9,840—2,650 sq.yd. Hornsby St. $14,520—2,680 sq.yd. Marnice Pl. $15,440—rein.-con. paving 3,795 sq.yd. Oleatha St. $18,000—505 sq.yd. Fairview St., $4,640—3 in. brick paving 1,540 sq.yd. Pelham St. $10,080—540 sq.yd. Liermann St. $3,040. W. W. Horner, 300 City Hall, engr.

Texas—Aug. 1, by G. Gilchrist, state hy. engr., Austin, grading, bridging, bituminous concrete, asphalt, concrete, and shell surfacing 186.45 mi. hys. in Anderson, Harris, Hale, Jackson, Goliad, Victoria, Wilson, Karnes, Shackelford, Trinity, Potter, Calhoun, Navarro, Jones and Wharton Counties. $1,390,100.

Texas—Aug. 2, by G. Gilchrist, state hy. engr., Austin **(F.A.P. means Federal Aid Project)** grading, bridging 7.84 mi. Hy. 31, F.A.P. 545-C, Henderson Co., $50,400—9.553 mi. Hy. 43, F.A.P. 453-H, Cherokee Co. $59,400—0.85 mi. Hy. 31, F.A.P. 545D, Henderson Co. $36,000—20.579 mi. Hy. 24, F.A.P. 454A, Unit 1, Baylor Co., $108,000—2.37 mi. Hy. 40, F.A.P. 355B, Hardin Co., $72,000—4.555 mi. Hy. 43, F.A.P. 494-B, Milan Co., $36,000—concrete paving 10.257 mi. Hy. 1, F.A.P. 444-I, Unit 2, Taylor Co., $234,000.

Tex., Commerce—July 31, by Bd. Comm., C. T. England, city secy., Curbing, guttering, rein.-con. paving 11,411 sq.yd. $30,000. M. Ramsey, city engr.

Oklahoma—Aug. 14, by State Hy. Dept., Oklahoma City, grading 5 mi. Hy. 9, $35,-000 and 4 mi. Hy. 8, $30,000, both Caddo Co.—5 mi. Hy. 8, Comanche Co. $40,000—24 mi. Hy. 66, Canadian Co. $140,000—6 mi. Hy. 53, Carter Co. $36,000—9 mi. Hy. 7, Grady Co. $55,000—2 mi. Hy. 7, Jackson Co. $40,000—16.5 mi. Hy. 266, Lincoln Co. $105,000—7 mi. Hy. 27 $42,000 and 7 mi. Hy. 48 $40,000, both Okfushee Co.—15 mi. Hy. 27, Cherokee Co. $90,000—7 mi. Hy. 19, Coal Co. $30,000—concrete surfacing 42,240 sq.yd. U. S. Hy. 81, Grant Co. $100,-000—36,960 sq.yd. U. S. Hy. 8, Kingfisher Co. $80,000—47,820 sq.yd. Hy. 33, Logan Co. $110,000—36,960 sq.yd. U. S. Hy. 77, Noble Co. $90,000—105,600 sq.yd. Hy. 33, $250,000 and 16,640 sq.yd. Hy. 40, $38,000, both Payne Co.—52,925 sq.yd. Hy. 18, Pottawatomie Co. $125,000—105,600 sq.yd. Hy. 29, Stephens Co. $250,000—sheet asphalt surfacing 68,640 sq.yd. Hy. 66, Beckham Co. $190,000—90,000 sq.yd. Bryan Co. $175,-000—52,840 sq.yd. Hy. 16, Nowota Co. $150,000—59,140 sq.yd. U. S. Hy. 66, Oklahoma Co. $165,00—52,810 sq.yd. Hy. 3, Pottawatomie Co. $145,000—21,120 sq.yd. Hy. 48, Seminole Co. $60,000. C. R. Mandigo, hy. engr.

Colorado—Aug. 3, by State Hy. Dept., grading, gravel surfacing 2.43 mi. road between Portland and Florence, Fremont Co., 6.4 mi. road between Meeker and Craig, Rio Blanca and Moffat Counties. $110,000. L. D. Blauvelt, hy. engr.

Wash., Seattle—City Council bids about Aug. 11, paving, with iron piping for irrigation, drainage and sidewalks 13 blocks South 13th, 17th, 18th and Bonnie Doone Aves. $57,547. W. D. Barkhuff, Seattle, engr.

California—Aug. 8, by State Hy. Comn., Sacramento, grading, crushed gravel or stone, oil treated surfacing 9.3 mi. road between Olancha and Cottonwood Creek, Inyo Co. C. H. Purcell, Highway Bldg., engr.

Contracts Awarded

New Hampshire—State Hy. Dpt. Concord **(e.e. means engrs. est.)** 3 in. bituminous macadam on 8 in. gravel paving 1.601 mi. hy. in Center, Harbor and Meredith to R. E. Bull, 151 Harrison Ave., Fitchburg, Mass., $38,396 e.e $47,000 — 1,979 mi. Claremont to Winslow-Cummings, Nashua, $70,447 e.e. $73,000—3 in. on 6 in. gravel paving 1.29 mi. Belknap, to F. E. Ellis, Melrose, Mass., $22,183 e.e. $28,000—6 in. one course rein-con. paving 1.725 mi. Tamworth, to D. D. Snyder, Gardner, Mass., $58,180 e.e. $67,000. Grand total $189,204. Noted July.

Massachusetts — Dpt. P. Wks., Boston, bituminous macadam paving 3,650 ft. hy. in Acushnet, to G. C. Tripp, 276 Elm St., New Bedford, $15,925—2,032 ft. Hamilton, to Welch & Moynihan, 15 Front St., Salem, $12,717—829 ft. Duxbury, to F. P. McNell, 20 Starbird St., Lowell, $8,942—8,862 ft. Groveland, to M. McDonough Co., Swampscott, $71,904—3,700 ft. Weston, to Iafolla & Sheilds, Noyes Pl., Boston, $29,328—gravel, bituminous macadam paving 3,300 ft. Randolph, to Powers Bros., 161 Montello St., Brockton, $8,182—rein.-con. paving

Streets and Roads (Continued)

4,198 ft. Malden and Medford, to J. A. Fannon, 39 Powder House Blvd., West Somerville, $49,137—grading 29,693 ft. Charlton and Sturbridge, to R. A. Bergeson, Woonsocket, R. I., $198,854. Grand total $294,989. Noted June 28.

Mass., Brookline (br. Boston)—Bd. Selectmen, sheet asphalt paving Washington St., to Warren Bros. Co., 38 Charles River Rd., Cambridge, $29,853.

Mass., Chelsea (br. Boston)—Street Dpt., granite block paving, to J. J. Walsh Co., Washington Ave. Est. $25,000 or more.

Mass., Everett (br. Boston)—Bd. P. Wks., bituminous concrete paving, to Simpson Bros. Corp., 77 Summer St., Boston. Est. $25,000 or more.

N. Y., Buffalo—Bd. Supervs. Erie Co., to Stapell, Mumm & Beals Corp., Camp Rd. and Erie R.R., Hamburg, rein.-con. paving Potters Corners Rd. G.M.S. 209, $52,832; Sheridan Dr. G.M.S. 203, $213,945; Union Rd. G.M.S. 201, $91,800—to Meyer & Meyer Corp., 21 Transit Rd., Depew, Lake Ave. Part 2, G.M.S. 200, $70,648; Lake Ave. Part 1, G.M.S. 200, $45,655—to Holmes & Murphy, Bank St., Orchard Park, Harlem Rd. Part 5, G.M.S. 205, $33,870. Grand total $508,750. Noted July 19.

New Jersey—State Hy. Comn., Trenton, grading, 9 in. rein-con., paving 49,929 sq.yd. Route 1 (1927), Sect. 2, and Route 3, (1927), Sect. 1, Tonnele Ave. extension and connection to Paterson Plank Rd., Bergen Co., to S. J. Groves & Son, Mt. Ephriam, $710,295. Noted June 28.

N. J., Caldwell—Essex Co. (Newark), bituminous concrete paving Fairfield-Clinton Rd., to Francisco Bros., Ridge Rd., Little Falls, $30,430.

N. J., Hillside (br. Elizabeth) — Twp. Com., Municipal Bldg., resetting, curbing, sheet asphalt on 6 in. concrete paving Leo and Hurden Sts., to J. B. Gilligan & Casey Co., 972 Broad St., Newark, $34,575—King St. and Ridgeway Ave., to Loprete Asphalt Co., 423 Amherst St., East Orange, $29,031—Maple Ave., to J. F. Chapman & Son, 1429 North Broad St., $63,255. Grand total $126,861.

N. J., Hillside (br. Elizabeth) — Twp. Com., resetting, curbing, 3 in. sheet asphalt on 6 in. concrete paving Coe Ave., to Gilligan & Casey, Ft. of Brill St., Newark, $21,499. Noted July 12.

N. J., Hillside (br. Elizabeth) — Twp. Com., Municipal Bldg. resetting curbing, sheet asphalt on 6 in. concrete paving Fairbanks and Avy Sts., to J. F. Chapman & Son, 1349 North Broad St., $26,557. Noted July 12.

N. J., Irvington (br. Newark)—Concrete paving Rosehill and Normandy Pl., to J. Borer, 644 Nye Ave., $9,052, incinerator grounds, to Loprete Asphalt Co., 423 Amherst St., East Orange, $16,297.

N. J., Teaneck (mail West Englewood)—Twp. Com., Municipal Bldg., concrete paving East Palisade Ave., to Sanna Connova Constr. Co., Inc., Rochelle Park, $29,561—Edgemont Pl., to R. A. Hamilton, 16 West Ft. Lee Rd., Bogota, $27,967—Hamilton Rd. and Fyche Lane, to Toriello & Pirdy, 16 West Ft. Lee Rd., Bogota, $22,887—Oak St., to G. Di Napoli, Inc., 80 Main St., Hackensack, $8,976—Lena St. and Gaylord Terrace, to Toriello & Sansone Constr. Co., 28 Essex St., Hackensack, $4,703 and $9,903 respectively—Granger Rd., to Chrisholm & Weisgerber, Inc., Teaneck Rd., Teaneck, $12,449. Grand total $116,446. Noted July 2.

N. J., Union—Bd. City Council, City Hall, sheet asphalt on concrete paving 3rd St., to Clinton Asphalt Co., 308-16th St., Union City, $39,945. Noted June 21.

Maryland—State Roads Com., Baltimore, concrete shoulders on 2.32 mi. Carroll Co., to Thomas, Bennett & Hunter, Westminster, $19,188—concrete shoulders, concrete paving 4.48 mi. Allegany Co., to Cumberland Contg. Co., Cumberland, $38,383—concrete paving 4.7 mi. Anne Arundel Co., to Continental Contg. Co., Knickerbocker Bldg., Baltimore, $79,406 — penetration macadam resurfacing 2 mi. Montgomery Co., to Long, Kenney & Co., Hagerstown, $34,932—hot and cold bituminous resurfacing 1.7 mi. Anne Arundel Co., to J. L. Robertson Co., Montebello Ave., Baltimore, $17,350. Grand total $189,259. Noted June 21 and July 5.

W. Va., Moundsville—Rein.-con. paving Marshall St., to H. L. Seabright Co., 70 43rd St., Wheeling, $30,732. J. Sherman, Welch, Moundsville, engr.

North Carolina—State Hy. Comn., Raleigh, to R. C. Stevens, Asheville, grading, plain concrete paving 8.88 mi. Buncombe Co., $178,200—to Powell Paving Co., Winston-Salem, 5.04 mi. Forsyth Co., $102,427—to W. F. Bowe, Jr., 541 Broad St., Augusta, Ga., 8.14 mi. Columbus Co., $150,246—3.22 mi. Person Co., $83,995—to Gregory & Weisiger, Pittsboro, 4.26 mi. Granville Co., $89,173—to Noll Constr. Co., Charlotte, 5.5 mi. Sampson Co., $104,683—to N. L. Teer, Durham, clearing, grading, top-soiling 8.96 mi. Cabarrus Co., $59,680—4.18 mi. Mecklenburg Co., $26,953; 9 mi. Avery Co., $113,104—to C. A. Ragland, Louisburg, 6.68 mi. Northampton Co., $45,121—to W. C. Carter & Mebane, 11.78 mi. Union Co., $68,430—to Beal Bros., Bear Creek, 4.02 mi. Cumberland Co. $26,009—to Kirkman Bros., Mt. Airy, grading, top-soiling, small rein.-con. structures 5.19 mi. Surry Co., $56,956—to Porter & Peck, Orlando, grading 17.81 mi. Tyrrell Co., $95,710—to Hudson & Scruggs, Inc., Wilmington, grading, sand asphalt paving 7.01 mi. Columbus Co., $92,385. Grand total $1,293,072. Noted July 5.

Fla., Jacksonville—City Comn., concrete paving Dennis and Union Sts., to R. G. Lassiter Co., Oxford, N. C., $64,732. Noted May 31.

Miss., Kosciusko—Attala Co. grading, bridging 10.472 mi. Federal Aid Project 54-C, to Boddie Constr. Co., Laurel, $99,873. Noted June 28.

Miss., Meadville—Franklin Co., grading culverts, bridging 6.589 mi. Federal Aid Project 199-A, to Standard Paving Co., Inc., Baton Rouge, La. Noted June 28.

Miss., Mendenhall—Grading, graveling, culverts, bridges 1.612 mi. Federal Aid Project 200-A, to Newson Bros., Columbia. Noted June 28.

La., De Quincy—Mayor and Bd. Aldermen, paving 23,000 yd., to Flenniken Constr. Co., Knoxville, Tenn., $73,916. Noted June 7.

Kentucky—State Hy. Dept., Frankfort, traffic bound macadam surfacing 6.26 mi. Warren Co., to Raymond Contg. Co., Bowling Green, $25,689—5.939 mi. Clinton Co., to Clinton Road Co., Albany, $26,236—11.16 mi. Estill Co., to Irvine Constr. Co., Irvine $57,687—9.783 mi. Logan and Warren Counties, and 11.44 mi. Wayne Co., to Campbell & Co., Bowling Green, $87,892 and $74,650 respectively—15.562 mi. Morgan Co. and 4.029 mi. Lee Co., to Sipple & Byers, Winchester, $78,281 and $25,266 respectively—6.189 mi. Powell Co., to R. M. Robinson, Owensboro, $30,850—11.562 mi. Powell and Wolfe Counties, to I. N. Horton, Lexington, $63,732—9.771 mi. Rockliffe Co., and 2.889 mi. Ohio Co., to Perkins, Darnell & Williams, Hodgenville, $37,318 and $12,796 respectively—12.124 mi. Trimble Co., to Myers Bros., Campbellville, $54,731—creek gravel surfacing 6.461 mi. S.P. 4-C-S and 9.575 mi. S.P. 4-D-S, Breathitt Co., to H. H. Miller Constr. Co., Jackson, $39,145 and $47,647 respectively—11.236 mi. Knott Co., to Hart & Blair Constr. Co., Whitesburg, $47,500—9.619 mi. S.P. 32-B.S and 8.554 mi. S.P. 32-C-S, Menifee Co., to G. A. Reeves, Greenup, $42,242 and $32,834 respectively—rein.-con. surfacing 1.423 mi. Carroll Co., to Tye & Wells, Pleasureville, $47,748—river gravel on bank gravel surfacing 7.193 mi. Lyon Co., to Ellis, Kelly & Co., Owensboro, $33,296—8.086 mi. Ohio Co., to Mulligan & Church, Owensboro, $52,573—grading 5.316 mi. Butler Co., to Duke Bros., Hartford, $58,428—10.871 mi. Floyd Co., to Albert Bros., Salem, Va., $221,141—6.096 mi. Franklin Co., and 2.363 mi. Warren Co., to Jenkins Constr. Co., Elizabethtown, $57,910 and $49,114 respectively. Grand total $1,304,706. Noted July 7.

O., Akron—Summit Co., grading, slag paving 6.2 mi. Doylestown-Richfield Rd. C. H. 2, Sects. C and D, to L. C. Bell & Son, West Mansfield, $56,732. Est. $67,700.

O., Cincinnati—C. O. Sherrill, city mgr., granite curbing, sidewalks, 2,500 sq.yd. new and 3,500 sq.yd. old granite block repaving McMicken Ave., to A. J. Henkel Constr. Co., Bell Blk., $35,959. Est. $40,125. Noted June 7.

O., Cleveland—To Bentley Bros., Hanna Bldg., brick paving Gunhill and Yolan Aves., $32,142 and $34,767 respectively—to Highway Constr. Co., Guarantee Ttitle Bldg., asphalt paving Christine Ave., $9,109; Maplerow Ave., $11,357; Rexwood Ave., $9,758; Savbrook Ave., $9,035; brick paving East 154th St., $51,120—to Roehl Bros., 7002 East Denison Ave., asphalt paving Archmre Ave. $24,563; North Cliff Ave. $20,329, Vandalia Ave., $28,125; brick paving West 140th St., $36,911. Grand total $267,216.

Ind., South Bend—St. Joseph Co., Mexican asphalt paving 2½ mi. hy., to Williston Constr. Co., 603 Citizens Bank Bldg., $35,199; concrete paving 9/10 mi., to Seaman Constr. Co., Goshen, $23,362, 2¼ mi., to Bontrager Constr. Co., Elkhart, $54,500; graveling 1½ mi. Phenl & Brown, Milford, $14,000. Grand total $127,061. Noted June 14.

Michigan—At City Clerk's Office, Manton, concrete paving, widening 1.763 mi. FO83-15, C-1, Wexford Co., to Goldberg Constr. Co., Mackinaw City, $51,091. Noted June 7.

Mich., Birmingham — Concrete curbing, guttering, grading, graveling 16,000 lin.ft. Lincoln Ave., to Taylor Constr. Co., 1st Natl. Bank Bldg. Est. $25,000.

Ill., Peoria—Grading, curbing, rein.-con. paving 1 block Harrison St., 30 ft., to H. Hoppler, 216 West Armstrong St., $2,554; 6 blocks, East Melbourne, Shelley and Hanasler Sts., to McElwee & Rogy, 826 South Adams St., $28,227.

Wis., Milwaukee—Supervs. Milwaukee Co., widening, concrete paving 7,600 sq.yd. Silver Spring Rds. 1, 2 and 3, to White Constr. Co., 68 East Wisconsin Ave., $50,735; Silver Spring Rd. 4, to J. P. Humphries, 888 Island Ave., $30,545. Noted June 21.

Wis., Milwaukee—Dpt. P. Wks., R. E. Stoelting, comr., to Badger Constr. Co., 97 Wisconsin Ave., 3 in. sheet asphalt paving 10,965 sq.yd. Cherry St. $12,062, 839 sq.yd. Greenfield Ave. $22,258, 3,192 sq.yd. Walnut St. $4,518. Grand total $38,838.

Ia., Boone—Boone Co., to C. C. Barnes & Son, Des Moines, grading secondary roads, 30,000 cu.yd. excav. at $0.32 per cu.yd.; to Allison Grading Co., Boone, 3,000 cu.yd. excav. $0.22; to Myers & Myers, Boone, 5,000 cu.yd. channel change $0.26; to C. A. Lamb, Boone, 5,000 cu.yd. channel change, $0.277.

Ia., Denison, Crawford Co., to McDougal Constr. Co., Sioux City, improving 24.5 mi. road, 14,400 cu.yd., Class "A" gravel at $1.997 per sq.yd., 6,500 cu.yd. crushed gravel $0.35, 39,000 units overhaul $0.065, 3,000 cu.yd. tripping $0.20. Noted June 21.

Ia., Pocahontas—Pocahontas Co. to J. W. Donnelly, Gilmore City, graveling Hawkeye Co. Rd., 3,000 cu.yd. screen gravel 1 mi. haul at $3.30 per cu.yd. No. 9,300 units overhaul, $0.06, 1,800 cu.yd. stripping $0.18; 17 mi. secondary roads, 7,200 cu.yd. gravel $0.27, 3,600 cu.yd. crushed gravel $0.28. Noted June 21.

Minn., Duluth—P. G. Phillips, city comr., grading, curbing, sidewalks concrete paving 9,676 sq.yd. 8th St. and Hawthorne Rd. to Allen Ave. and Vermilion Rd., to J. Winnemaki, 1018 East 13th St., $40,139. Noted May 17.

Kan., Fredonia—Wilson Co., grading, culverts 7.324 mi. Project 557, 30 ft., to A. L. Cook, Ottawa, $47,424. Noted June 28.

Kan., Lyons—Rice Co., grading, culverts 5.012 mi. Federal Aid Project 331-B, 30 ft., to E. W. Koterman, 301 Karback Bldg., Omaha, Neb., $29,049.

Kan., Lyons—D. Brua, clk. Rice Co., grading, 6.326 mi. Federal Aid Project 331, Sects. B and E, to E. W. Kolterman, 301 Karbach Bldg., Omaha, Neb.; 8 bridges to Erickson Constr. Co., Lindsborg. Noted June 14.

Kan., Ottawa—For 3 in. brick over old brick paving 19,000 sq.yd. Main St. to Cook & Stucker, Ottawa, surfacing brick, $1.75 per sq.yd., brick relaid $0.80, curb and gutter, $1.80 ft.

Mo., Sikeston—Concrete paving 11,000 sq. yd. Main St. to carry State Hy. System through city, to Tidd & Cole, Hutchinson, Kan.

Ark., Ft. Smith—Concrete paving 1,920 sq.yd. Dist. 38, to T. J. Hays, 3303 Rogers St., $3,682—concrete paving 2,950 sq.yd. Dist. 42, and curbing, guttering Hillcrest Dist., to Luke Constr. Co., 2802 West 15th St., Little Rock, 5,733 and $16,003 respectively.

Tex., Dallas — Willite paving Cedar Springs Rd. from River to Maple Sts., to Fuller Constr. Co., Republic Bank Bldg., $81,061. Est. $90,000.

California—State Hy. Comn., Sacramento, grading, concrete paving 11.6 mi. Ventura Co., to Jahn & Bressi, 724 South Spring St., Los Angeles, $468,324—grading 7.2 mi. San Diego Co., to Hauser Constr. Co., Seaside St., Long Beach, $237,626. Noted June 21.

Calif., Los Angeles — Los Angeles Co., grading, curbing, walks, concrete paving Impvt. 789, to Dann & Maney, 1120 West 8th St., $48,338—3 in. oil macadam paving 240, 575 sq. ft. Descano Way, to A. O. Nelson, 136 North Huntington Dr., Pasadena, $39,916—vibrolithic concrete paving Hawthorne Ave., Contr. 336, to Griffith Co., Railway Bldg., $48,185. Grand total $136,439.

Calif., San Luis Obispo—San Luis Obispo Co., grading, mains, lighting system, paving Vista Del Encanto Tract, to I. L. Ryder, 205 Almaden Ave., San Jose, $172,150.

Ont., Kitchener—Asphalt paving Union Blvd., Lydia and East Weber Sts., to Standard Paving Co. Ltd., Central Chambers, Ottawa. Est. $40,000. Noted Apr. 12.

Ont., Merlin — Kent Co. (Chatham), asphaltic macadam on block base paving 10,000 sq.yd. King St. N., to Merlo & Ray, Sandwich St., Ford City. Est. $30,000.

Ont., Toronto—York Twp., bitulithic on concrete paving 10,000 sq.yd. Pinewood Ave. and Baby Point Crescent, to Warren Bituminous Paving Co., 54 University Ave., $45,546. Est. $45,000.

Ont., Toronto—Toronto and York Co. Roads Comn., 57 Adelaide St. E., penetration macadam paving 1¼ mi. Vaughan Rd., to Fisher Constr. Co., 877 Broadview Ave.,

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Streets and Roads (Continued)

$15,000; waterbound macadam paving 1¼ mi. Nashville Rd. W., to Dagg Constr. Co., Kleinburg, $19,000.

Ont., Windsor—Concrete paving 12,000 sq.yd. alleys, to Chick Contg. Co., 951 McDougall Ave., $31,000. Est. $30,000.

B. C., Chilliwack—P. Philip, engr. Dpt. P. Wks., Victoria, warrenite bitulithic paving 6.28 mi. Provincial Hy., to Columbia Bitulithic Ltd., 500 Beatty St., Vancouver, $145,000.

Public Bond Elections

Coming Elections

Waterworks—Meadow, Tex., $100,000.
Waterworks—Bismarck, Mo., $47,000.
Bridge—Pittsburgh, Pa., $14,650,000.
Paving—Pittsburgh, Pa., $17,480,000.
Paving—Brownsfield, Tex., $50,000.
Paving—Pleasant Hill, Tex., July 31, $25,000.
Court House—Los Angeles, Calif., $10,000,000.
Office and Auditorium—Pittsburgh, Pa., $8,550,000.
School—Meadow, Tex., $150,000.
School—Tulsa, Okla., $1,500,000.
Lighting System—El Reno, Okla., Aug. 1, $25,000.
Fire Alarm System—Sacramento, Calif., $305,200.
Park Improvement and Airport—Pittsburgh, Pa., $3,000,000.
Fire Alarm System—Sacramento, Calif., $305,200.

Bonds Voted

Waterworks—Archer City, Tex., $40,000.
Waterworks—Holland, Tex., $50,000.
Sewers—Archer City, Tex., $40,000
Sewers—Vancouver, B. C., $250,000.
Drain—Grosse Pointe Park (mail Grosse Pointe), Mich., $795,000.
Paving—Anson, Tex., $25,000.
Paving—Corinth, Miss., $600,000.
Paving—Greenville, Tenn., $30,000.
Paving—Hempstead, Tex., $230,000.

Buildings—Commercial

Proposed Work

Mass., Boston—STORE and OFFICE—Neisner Bros., Inc. (5 & 10c stores); 49 East Ave., 3 story, basement, brick, plain found., 349-363 Washington St. To exceed $150,000. Private plans.

Mass., Greenfield—THEATRE—G. B. Theatres Corp., N. E. Goldstein, 103 Bridge St., Springfield, plans by Mowl & Rand, 21 School St., Boston, probably brick, steel. $150,000 or more.

Mass., Lynn—APARTMENT—Owner, c/o E. Earp, archt., 333 Union St., sketches 3 story, basement, 60 x 200 ft., brick, plain found., Union St. $150,000.

Mass., Lynn—APARTMENT—A. H. Stockbridge, 76 Park St., plans by C. L. Betton, 31 Exchange St., 2 units 3 story, basement, brick, stone, plain founds. Park St. and Western Ave. $150,000. Noted June 28.

Mass., Pittsfield—HOTEL—Wendell Hotel, South St., plans by A. H. Lavalle, 496 Bridge St., Springfield, altering and constructing brick, steel addition, South St. To exceed $150,000.

Mass., Quincy (Ind. br. Boston)—STORE and OFFICE—H. N. Faxon, Cliveden Bldg., plans by Shepard & Stearns, 65 Franklin St., Boston, 2 story, basement, 125 x 195 ft., brick, plain found., Hancock St. $150,000.

Mass., Quincy (Ind. br. Boston)—STORE and OFFICE—M. Winer, 85 Monroe Rd., brick, stone, 1428-1432 Hancock St. $150,000 or more. Engineer and architect not selected.

Conn., New Haven—ARMORY—State, F. Salmon, comptroller, State House, Hartford, plans by Payne & Keefe, 231 State St., New London, D. E. Smith, associated archt., 52 Temple St., brick, steel and concrete, Beaver Hill. $700,000. Noted June 7.

Conn., Newton—TOWN HALL—Town, Edmond Memorial, Town Hall, Com., Town Hall, sketches by Sunderland & Watson, 248 Main St., Danbury, town hall. $250,000. Noted July 5.

N. J., Bayonne—HOME—Bd. Freeholders Hudson Co., Court House, Jersey City, soon lets contract 2 story, basement, brick, steel, plain found., 56th St. west of Hudson Blvd.

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$150,000. C. H. Ziegler, 75 Montgomery St., Jersey City, archt. Noted June 28.

N. Y., Brooklyn—APARTMENT—Dawn Realty Corp., S. Kaplan, pres., c/o J. J. Millman, archt., 26 Court St., 6 story, 86 x 100 ft., brick, Brightwater Court and Bunlig St. $250,000.

N. Y., Brooklyn—APARTMENTS—Philly Building Co., N. Jeffe, secy., 858 Driggs Ave., plans by P. L. Kieswetter, 16 Court St., two 4 story, 88 x 125 ft., brick, timber, 62nd St. and East 11th Ave. $400,000.

N. Y., Brooklyn—COMMUNITY—Beth El Ohim, c/o D. Levy, archt., 110 East 42nd St., New York, soon lets contract 4 story, 105 x 112 ft., brick, stone, Garfield Pl. and 8th Ave. $500,000. M. Freehof, 415 Lexington Ave., New York, associated archt. Noted Dec. 8, 1927.

N. Y., Brooklyn—STORE and APARTMENT—M. K. & L. P. Realty Corp., L. Posner, secy., 611 Empire Bldg., plans by Cohn Bros., 361 Stone Ave., 6 story, 192 x 203 ft., brick, timber, Kingston Ave. and Lefferts St. $650,000.

N. Y., New York—APARTMENT—Carmine Cioffe, Inc., 1695 Boston Rd., plans by G. Swiller, 4215 3rd Ave., 6 story, 102 x 175 ft., brick, Castle Hill and Tremont Aves. $400,000.

N. Y., New York—APARTMENT—Hood Building Corp., M. Goodman, pres., 12 East 41st St., plans by Gronenberg & Leuchtag, 1385 Bway., 16 story, 95 x 100 ft., brick, steel, 693 West End Ave. $1,000,000.

N. Y., New York—APARTMENT—Scher Constr. Corp., 1561 48th St., Brooklyn, plans by Cohen & Siegel, 45 West 57th St., 6 story, 86 x 100 ft., brick, timber, 138 West 140th St. $185,000.

N. Y., New York—APARTMENT—Silberg Constr. Corp., A. Silberberg, pres., 11 West Mt. Eden Ave., plans by G. G. Miller, 1482 Bway., 6 story, 85 x 97 ft., brick, Woodycrest and 165th Sts. $190,000.

N. Y., New York—COURT HOUSE—Dpt. Pub. Buildings, Municipal Bldg., plans by M. Hausle, 3307 3rd Ave., 3 story, 64 x 104 ft., brick, steel, stone, Grand Concourse and McClellan St. $200,000.

N. Y., New York—LOFT, OFFICE, STORE—Estate of W. DeForest Manice, c/o Clifton & Russell, archts., 17 John St., 24 story, 100 West 36th St. $1,200,000.

N. Y., New York—LOFT and STORAGE—Gowol Holding Corp., J. Gold, pres., 522 5th Ave., plans by de Young & Moskowitz, 11 East 44th St., 5 story, 59 x 102 ft., brick, 158 157 West 83rd St. $150,000.

N. Y., New York—STORE and OFFICE—Chenco Realty Corp., C. Cohn, pres., 1228 Vyse Ave., bids in September. 12 story, brick, steel, Melrose Ave. and 151st St. $500,000. G. A. Schoenwald, 4733 Grand Central Terminal, archt. Noted June 7.

N. Y., New York—STORE and OFFICE—Charking Corp., S. M. Barner, pres., 305 5th Ave., plans by R. T. Lyons, 40 East 49th St., 21 story, 68 x 100 ft., brick, steel, 30 East 53rd St. $500,000.

N. Y., New York—STORE and OFFICE Three Sixty-Eight Lexington Ave., Inc., R. J. Schoonmacher, pres., 342 Madison Ave., plans by Moore & Landsiedel, 509 Willis Ave., 22 story, 79 x 150 ft., brick, steel, 116 East 41st St. $3,250,000.

N. Y., New York—STORE, THEATER, OFFICE—Jerroid Holding Co., c/o P. Uris, 271 Madison Ave., brick, steel, 42nd St., between Bway. and 8th Ave. $2,500,000. Engineer and architect not selected.

N. J., Atlantic City—APARTMENT—C. F. Wahl, c/o U. B. Smith, archt., Guarantee Trust Bldg., 6 story, basement, brick steel, plain found., South Penna. Ave. $450,000.

N. J., Caldwell—CONVALESCENT HOME—Theresa Grotto, c/o E. H. Fougner, archt., 197 Market St., Newark, 2 story, basement, brick, steel, plain found. $150,000. Noted July 5.

N. J., Clifton (Ind. br. Passaic)—APARTMENTS—Larson Realty Corp., c/o H. Gerritsen, archt., 118 Passaic Ave., Garfield, two 3 story, basement, brick, plain found., 785-95 Main Ave. $150,000.

N. J., Jersey City—HOTEL—Fairmount Hotel, c/o P. L. Schultz, archt., 256 Summit Ave., Union City, revised sketches 11 story, basement, 50 x 107 ft., brick, steel, plain found. $300,000. Noted May 3.

N. J., Newark—CLUB, STORE and THEATRE—Steuben Club of Newark, Inc., 43 Central Ave., revised plans by F. H. Koenigsberger, 48 Walnut St., 8 story, basement, 130 x 160 ft., brick, steel, plain found., Washington St. $1,000,000. Noted June 9.

N. J., Newark—HOTEL—Metropolitan Building & Realty Co., H. Kruvant, pres., 24 East Park St., sketches by R. Bottelli, 45 Branford Pl., 12 story, basement, brick, steel, plain found. on 100 x 150 site, 19-25 Lombardy St. $300,000.

N. J., Newark—HOTEL—Owner, c/o S. Cohen, archt., 130 Branford Pl., sketches 3 story, basement, brick, steel, plain found. Melford Ave. $150,000.

N. J., New Brunswick—APARTMENT—Eldorado, Inc., c/o M. Klement, archt., 4 Hill St., Newark, 5 story, basement brick, steel, plain found., 2nd Ave. and North Montgomery St. $150,000.

N. J., Orange—APARTMENT—Build-Well Co., 135 Hill St., sketches by M. Villaloboa, 604 Central Ave., East Orange, 4 story, basement, 95 x 105 ft., brick, steel, plain found., Whitehall Pl. $150,000.

N. J., Rutherford—APARTMENT—Owner, c/o A. P. Nucciarone, archt., 206 Central Ave., Orange, sketches 3 story, basement, 115 x 120 ft., brick, steel, plain found. $200,000.

N. J., Teaneck (mail West Englewood)—HOSPITAL—Holy Name Hospital, Teaneck Rd., plans by V. Reeser, 55 West 42nd St., New York, 5 story, basement 40 x 230 ft., brick, steel addition, plain found. $800,000.

Pa., Phila.—FIRE STATIONS—City, 4 fire stations in 22nd, 34th, 40th and 42nd Wards. $500,000.

Pa., Phila.—WAREHOUSE—C. Kahn, Morris Bldg., plans by E. A. Hopper, 16 South 18th St., brick, rein.-con., plain found., 76,000 sq.ft. floor space, 6th St. and Glenwood Ave.

Md., Baltimore—THEATRE—Fidelity Amusement Co., c/o E. M. Davidove, Equitable Bldg., plans by T. W. Pietsch, Amer. Bldg., 1 story, basement, 61 x 157 ft., concrete, brick, steel, Gilmore St. $150,000.

D. C., Wash.—APARTMENTS—H. Bralove (owner and builder) 1106 Vermont Ave., N.W., soon takes bids sub-contracts 4 apartment buildings. $3,500,000.

W. Va., Wheeling—APARTMENT HOTEL—Bankers Mortgage Co., plans by Fox Duffy & Foose, 1225 Prospect Ave., Cleveland, O. 4 story, 120 x 120 ft., brick, steel, concrete, terra cotta, National Pike. $250,000.

O., Cleveland—GARAGE—A. Brudno, 1281 West 9th St., 4 story, basement, 42 x 90 ft., brick, rein-con., West 4th St. $150,000. Engineer and architect not selected.

O., Columbus—RETAIL STORE—Montgomery-Ward & Co., Chicago Ave. and Larr St., Chicago, Ill., plans by W. H. McCauley, c/o owner, 2 story, basement, 83 x 188 ft., concrete white terra cotta, 3rd and Main Sts. $500,000.

Ind., Indianapolis—HOSPITAL—City, H. G. Morgan, secy., plans by Vonnegut-Bohn-Mueller, engrs. and archts., Indiana Trust Bldg., several units to hospital, $600,000; by R. F. Daggett, Continental Bank Bldg., service building and power plant $450,000, all rein.-con., brick, steel, 960 Locke St. C. R. Ammerman, Continental Bank Bldg., engr. latter project.

Mich., Detroit—APARTMENT—Owner, c/o W. Hamacher, engr. and archt., Kresge Bldg., 4 story, basement, 78 x 92 ft., brick, steel, stone, plain found. $200,000.

Minn., Minneapolis—HOSPITAL—Swedish Hospital, W. Mills, supt., 10th Ave. and 7th St., soon lets contract 3 story, basement, rein.-con., brick, stone, 10th Ave. S. and 7th St. $350,000. Magney & Tusler, 116 South 9th St., archts. Noted Dec. 22.

Kan., Wichita—OFFICE and GARAGE—See "Contracts Awarded."

Mo., Kansas City—OFFICE—Owner, c/o S. B. Tarbet, archt., 507 Continental Bldg., 23 story, basement, 40 x 142 ft., rein.-con., brick, cut stone, 12th and Baltimore Sts. $1,000,000.

Mo., St. Louis—COMMUNITY and CLUB—J. Heim, archt., 922 Holland Bldg., soon lets contract 3 story, basement, 90x115 ft., rein.-con., brick, stone, terra cotta, incl. large auditorium, in rear lot, 4 social halls, rathskeller, cafe and 12 bowling alleys, 2345 Lafayette Ave., for German House, Inc., J. Toensfeldt, 2345 Lafayette Ave. $300,000. Taxis & Becker, Chemical Bldg., engrs. Noted June 7.

Tex., Dallas—DEPARTMENT STORE—Titche-Goettinger Co., bids early in August, 8 story, basement, 125 x 200 ft., Elm St. $1,500,000 or more. Herbert M. Greene & Co., Constr. Ind. Bldg., archt. Noted May 10.

Tex., San Antonio—OFFICE and GARAGE—J. M. Nix, c/o Lanier Hotel, revised plans by H. T. Phelps, c/o Hicks Bldg., 18 story, basement, structural steel, brick, marble, College and Navarro Sts. $2,000,000. Noted May 10.

Okla., Oklahoma City—HOTEL—C. F. Colcord, Colcord Bldg., plans by Hawk & Parr, Braniff Bldg., 25 story, 140 x 225 ft., steel, red brick, marble, plain found., Grand and Harvey Sts. $4,000,000.

Calif., Los Angeles—OFFICE—Southern California Edison Co., J. B. Miller, pres., 306 West 3rd St., plans by Allison & Allison, 1005 Hibernian Bldg., 12 story, basement, sub-basement, 175 x 175 ft., rein.-con., steel, incl. garage in basement and sub-basement, 5th St. and Grand Ave. $2,000,000.

Buildings—Commercial (Continued)

Calif., Sacramento—BANK—Bank of Italy, Bank of Italy Bldg., soon lets contract 2 story, basement, concrete, terra cotta addition, 8th and J Sts. $150,000. H. A. Minton, Bank of Italy Bldg., San Francisco, archt. L. H. Nishkian, 525 Market St., San Francisco, engr. Noted Feb. 23.

Mexico—CLUB—See "Unclassified."

Bids Desired

Massachusetts — EMPLOYEE and NURSES' HOME—July 30, by Dpt. P. Health, State House, Boston, women's employee building at state sanatorium, Rutland, and nurses' home at Lakeville Sanatorium, Lakeville, both 3 story, basement, brick, plain founds., for Commonwealth of Massachusetts. Total $150,000. Stevens & Lee, 45 Newbury St., Boston, archts.

Mass., Boston — APARTMENT — See "Contracts Awarded."

Mass., Boston—HEALTH UNIT—July 30, by Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., 3 story, basement, brick, granite, limestone, plain found., High, Elm and Summer Sts., Charlestown, for City of Boston, G. R. White Fund, G. E. Phelen, City Hall. $250,000. Noted Mar. 1.

Mass., Boston — STORE and OFFICE—A. Lipp, 27 State St., taking bids 5 story, basement, brick, limestone, plain found., 116 Newbury St. $150,000. Funk & Wilcox, 26 Pemberton Sq., archts.

Mass., Fall River—BANK and OFFICE—Citizens Savings Bank, J. T. Swift, treas., South Main St., taking bids 3 story, basement, 55 x 85 ft., brick, rein.-con., limestone, plain found., South Main St. $250,000. T. M. James Co., 3 Park St., Boston, archt. Noted June 14.

Mass., Fall River—STORE and OFFICE—July 31, by G. N. Durfee & Sons, 344 Lincoln St., and T. M. James Co., archts., 3 Park St., Boston, rebuilding 3 story, basement, brick, plain found., Purchase and Bedford Sts. $200,000. Noted Mar. 1.

Conn., Greenwich — THEATRE and APARTMENT—Lincoln Theatrical Enterprises, Inc., 972 Broad St., Newark, N. J., taking bids 1 and 2 story, Boston Post Rd. $2,000,000. W. E. Lehman, 972 Broad St., Newark, N. J., archt. Noted June 7.

N. Y., Oneida—ARMORY—Aug. 10, by Adjutant General div. Military and Naval Affairs, Executive Dpt., Albany, state armory; adv. E.N.-R. July 26.

N. J., Orange—APARTMENT—J. Zingalli, Glenridge Ave., Montclair, and A. P. Nucciarone, archt., 206 Central Ave., taking bids general contract 4 story, basement, 90 x 135 ft., brick, steel, plain found., Washington and North Center Sts. $160,000. Former sub-bids rejected. Noted July 12. Steam heating, boilers, metal lath, etc.

N. Y. New York — APARTMENT — See "Contracts Awarded."

N. Y., New York—APARTMENT—Sept. 1, by Caul Realty Corp., H. E. Murray, pres., 25 West 43rd St., general or separate contracts 15 story, 100 x 149 ft., brick, steel, 96 Central Park W. $1,600,000. Schwartz & Gross, 347 5th Ave., archts. Noted Mar. 1.

N. J., East Orange—STORE and OFFICE—F. Bower, archt., 437 Main St., taking bids 2 story, basement, 80 x 125 ft., brick, steel, plain found., for Kelp Realty Co., 372 Main St. $150,000.

N. J., Elizabeth—APARTMENTS—See "Contracts Awarded."

N. J., Haddonfield—APARTMENT—See "Contracts Awarded."

N. J., Irvington (br. Newark)—APARTMENT and STORE — See "Contracts Awarded."

N. J., Jersey City—CLUB HOUSE—Polish American Democratic Club, 22 Liberty Ave., bids about July 31, 3 story, basement, 75x100 ft., brick, steel, plain found., incl. auditorium, restaurant, bowling alley and billiard room, 24 Liberty Ave. $150,000. P. O. Simeone & Co., Inc., 22 Journal Sq., archts. Noted Sept. 22.

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Newark—OFFICE and HOTEL—See "Contracts Awarded."

N. J., Newark—STORE, OFFICE and LODGE—See "Contracts Awarded."

N. J., Ridgewood—THEATRE and STORE—North Oak Impvt. Co., 243 West Ridgewood Ave., taking new bids 4 story, basement, brick, steel, plain found., North Oak St. and Franklin Ave. $1,000,000. P. A. Vivarttas, 110-48th St., Union City, archt. Noted May 3.

N. J., Verona (Ind. br. Montclair)—APARTMENT—See "Contracts Awarded."

Pa., McKeesport—THEATRE and STORE Aug. 10, by J. Eberson, archt., 212 East Superior St., Chicago, Ill., 4 story, basement, 90 x 140 ft., brick, steel, terra cotta, 5th Ave. and Market St., for Harris Bros. Amusement Co., Davis Theatre Bldg., Pittsburgh. $500,000. Noted June 14.

Pa., Phila.—HOTEL—July 30, by P. M. Julian, archt., 917 15th St N.W., Wash., D. C., 22 story, basement, 60 x 110 ft., rein.-con., brick, steel, plain found., 13th and Locust Sts., for Blackstone Hotel, Inc., c/o architect $1,000,000.

Pa., Pittsburgh — FIRE and POLICE STATION—July 30, by City Controller, 3 story, basement, 60 x 125 ft., brick, steel, concrete, Broad St., for City, Dpt. P. Safety. R. Neff, city archt. Noted Sept. 22.

La., Houma—HOTEL and GARAGE—Aug. 26, by Lockett & Chachere, archts., Balter Bldg., New Orleans, 2 story, brick, hollow tile, rein.-con. found., for W. J. Picone. $150,000.

Ky., Louisville — HOSPITAL, etc.—Aug. 8, by A. Loomis, archt., Todd Bldg., 4 story, basement, 37 x 97 ft. addition, power house, laundry, also 12 room addition to nurses home, for Jewish Hospital, Floyd and Kentucky Sts. $200,000.

Ind., Franklin — HOSPITAL — Masonic Home, O. E. Holloway, chn., taking bids 4 story, basement, rein.-con., brick, steel. $150,000. McGuire & Shook, North Meridian St., Indianapolis, archt.

Ill., Chicago — APARTMENT — Levy & Klein, archts., 228 North La Salle Sts., taking bids 4 story, basement, 62 x 200 ft., 654 Wrightwood Ave., for M. R. Rosen & Fischel, c/o architects. $390,000.

Ill., Chicago—APARTMENT—H. Zisook, 4655 Lake Park Ave., bids about Aug. 1, 3 story, basement, 135 x 138 ft., brick, stone, Pratt Blvd. and Hillsdale Ave. $360,000. T. Bishop & Son, 35 South Dearborn St., archts. Owner does carpentry work.

Ill., Chicago—HOTEL—Wallach Bros., 134 North La Salle St., bids about Aug. 1, separate contracts 7 story, basement, 51 x 147 ft., rein.-con., brick, stone, 1234-36 Wabash Ave. $500,000.

Ill., Chicago—HOTEL—H. Zisook, 4655 South Dearborn St., taking bids 4 story basement, 50 x 165 ft., rein.-con., terra cotta, 6326 Kenbark Ave. $150,000. T. Bishop & Son, 35 South Dearborn St., archts.

Ill., Chicago—STORE and APARTMENT—Lowenberg & Lowenberg, archts., 111 West Monroe St., bids about July 30, 3 story, basement, brick, on 125 x 295 ft. site, Center and Burling Sts., for H. L. Schlaes, c/o architects. $300,000. Noted May 10.

Kan., Garden City — COURT HOUSE — Finney Co., c/o W. G. Hopkins, clk., bids about Aug. 8, 4 story, basement, 70 x 106 ft., rein.-con., stone. Routledge & Hertz, 204 State Exch. Bank Bldg., Hutchinson, archts. Noted June 14.

Mo., Kansas City—GARAGE—Kansas City Power & Light Co., 14th St. and Grand Ave., bids about Aug. 15, 4 story, basement, 125 x 142 ft., rein.-con. $150,000. Private plans.

Tex., San Angelo — DEPARTMENT STORE—D. M. Morgan, archt., c/o Natl. Bank, bids about Aug. 1, 5 story, part basement, rein.-con., brick, plain found., for Baker-Hemphill Co. $200,000. Noted June 12.

Okla., Durant—HOTEL—Aug. 10, by Layton, Hicks & Forsythe, archts., Braniff Bldg., Oklahoma City, 5 story, basement, 75 x 160 ft., rein.-con., brick, plain found., Main St., for Lee & Dyer, $200,000.

Okla., Tulsa — STORE — F. Wolferman, 59th and Main Sts., taking bids 1 and part 2 story, 100 x 125 ft., rein.-con., brick, plain found., 15th and Carolina Sts. $180,000. Boillot & Lauck, 1001 Orear-Leslie Bldg., Kansas City, Mo., archts.

Calif., Eldridge—HOSPITAL—Aug. 7, by G. B. McDougall, state archt., 615 Forum Bldg., Sacramento, 3 story, 54 x 294 ft., rein.-con., at Sonoma State Home. $150,000. W. B. Faville, Sacramento, associated archt.

Calif., Los Angeles — APARTMENT — See "Contracts Awarded."

Calif., San Francisco — APARTMENT — A. H. Larsen, archt., 447 Sutter St., taking bids 6 story, basement, rein.-con., steel, Taylor St., near Jackson St., for G. H. Jovik, 2852 Steiner St., $165,000 or more.

Ont., Ottawa—APARTMENT—C. Burgess, archt., Fraser Bldg., taking bids (except masonry work) 3 story, basement, 90 x 124 ft., rein.-con., brick, steel, stone, plain found., for S. Millar, Bank and Lesgar Sts. Masonry contract, to J. C. James, Flora St. $150,000. Noted Nov. 24.

Contracts Awarded

Mass., Boston — APARTMENTS — R. Brien, 90 Rossmore Rd., Jamaica Plain, four 3 story, basement, brick, timber units, plain founds., 255-263 Chestnut Ave., separate contracts. $160,000. Winebaum & Wexler, 73 Cornhill, archts.

R. I., Providence—CLUB—Providence Boys' Club, 226 South Main St., 3 story, basement, brick, steel, to Chas. B. Maguire Co., 507 Grosvenor Bldg. Est. $150,000. Noted July 5.

N. Y., New York—APARTMENT—Jesmul Constr. Corp., 1474 Shakespeare Ave., T. Mulligan, pres., 6 story, 72 x 195 ft., brick, Nelson and 165th Sts., separate contracts. $235,000. J. P. Boyland, 305 Kingsbridge Rd., archt.

N. Y., New York—APARTMENT—Upton Constr. Corp., E. Cohn, secy., 209 West 145th St., 6 story, 75 x 89 ft., brick, timber, 309 West 149th St., separate contracts. $150,000. Lang & Rosenberg, 1440 Bway., archts.

N. J., Elizabeth—APARTMENTS—M. Kotler, 4e Broad St., two 4 story, basement, 40 x 90 ea. brick, steel, plain found., 414-20 Vine St., separate contracts. $150,000. Noted July 19.

N. J., Haddonfield—APARTMENT—Haddonfield Manor Corp., 4 story, basement, brick, steel, plain found., separate contracts. $200,000. Edwards & Green, Inc., 584 Federal St., Camden, archts.

N. J., Irvington (br. Newark)—APARTMENT and STORE—S. Schneider, 5 Huntington Terrace, Newark, 3 story, basement, 60 x 130 ft., brick, steel, plain found., separate contracts. $150,000. Noted July 19.

N. J., Jersey City—THEATRE—C. W. & G. L. Rapp, archts., Paramount Bldg., New York, general contract 1 story, basement, 85 ft. high, 78 x 93 x 258 x 316 ft., brick, steel, plain found., to M. Masem & Son, 26 Court St., Brooklyn, N. Y., for Jersey Blvd. Corp. (Loews Theatrical Enterprises), 1540 Bway., New York. Est. $1,500,000. Noted June 21.

N. J., Newark—APARTMENT—Heller Constr. Co., 972 Broad St., 4 story, basement, 50 x 125 ft., brick, steel, plain found., separate contracts. $150,000. W. Lehman, 972 Broad St., archt. Noted July 12.

N. J., Newark—APARTMENT—National Realty Co., 215 Osborne Terrace, 4 story, basement, 100 x 110 ft., brick, steel, plain found., 214-22 Shepherd Ave., separate contracts. $175,000. E. Hauser, 11 Clinton St., archt. Noted July 12.

N. J., Newark—HOTEL—Majestic Holding Co., c/o W. Lehman, archt., 972 Broad St., 15 story, basement, 90 x 125 ft., brick, steel, plain found., to W. J. MacEvoy Constr. Co., 85 Academy St. Est. $2,000,000. Noted July 12.

N. J., Newark—OFFICE and HOTEL—Lefcourt Realty Holdings, 1351 Bway., New York, 30 story, basement, brick, steel, concrete pile found., Mulberry, Commerce and South Canal Sts., separate contracts. $10,000,000. F. Grad, 1023 Broad St., archt.

N. J., Newark—STORE, OFFICE and LODGE—Owner, c/o D. Hal Trevor, archt., 45 Branford Pl., 3 story, basement, 100 x 100 ft., brick, steel, plain found., Bergen and Renner Sts., separate contracts. $150,000. Noted Mar. 22.

N. J., Verona (Ind. br. Montclair)—APARTMENT—M. Zaborsky, 51 Bock Ave., Newark, 3 story, basement, 75 x 100 ft., brick, steel, plain found., separate contracts. $150,000. S. Cohen, 134 Branford Pl., Newark, archt.

Pa., Phila.—APARTMENT—I. W. Levin, archt., 11011 Chestnut St., 4 story, basement, 46 x 145 ft., brick, steel, plain found., to W. P. Cameron Eng. Co., Packard Bldg., for J. B. Scutti, Jefferson Bldg. Est. $200,000. Noted May 31.

Pa., Phila. — WAREHOUSE — Phil-Fibre Box Board Mills, Inc., Delaware and Tasker Aves., 3 story, basement, 50 x 120 ft., brick, concrete, plain found., Delaware and Tasker Aves., to L. Rosengarten, Otis Bldg. Est. $150,000.

Pa., Pittsburgh — GARAGE — Penna Transfer Co., 298 Duquesne Way, general contract 1 and 2 story, basement, 100 x 200 ft., brick, concrete, steel, Main St., to Nicola Building Co., Penn Ave. Est. $150,000.

Md., Baltimore—BANK—Park Bank, W. Bell, pres., Liberty and Lexington Sts., 5 story, basement, 25 x 140 ft., brick, steel, 104 West Lexington St., to Morrow Bros., Fidelity Bldg.

Ind., Indianapolis — APARTMENT — Pennsylvania & 14th Realty Co., 1701 North Illinois St., general contract 6 story, basement, 163 x 660 ft., rein.-con., brick, steel, to E. W. Hauser, 605 Merchants Bank Bldg. Est. $500,000.

Ill., Chicago — APARTMENT — W. L. Hoffman, archt., 718 West 63rd St., masonry and concrete contract 7 story, 66 x 135 ft., rein.-con., brick, stone, to E. Edlund, 6700 Crandon Ave.; heating, to Economy Plumbing & Heating Co., 1308 South Crawford Ave., for N. L. Randall, 1609 Howard St. Est. $500,000. Noted June 21.

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Buildings—Commercial (Continued)

Ill., Chicago — APARTMENT—Winthrop Building Corp, c/o Houlihan & Houser, archts., 64 West Randolph St., general contract 9 story, basement, 50 x 150 ft., rein.-con., brick, stone, 5625 Winthrop Ave., to H. B. Ryan & Co., 500 North Dearborn St.

Ill., Chicago — HOTEL — Lowenberg & Lowenberg, archts., 111 West Monroe St., masonry contract 4 story, 45 x 178 ft. addition, to Borg & Johansen, 2452 Irving Park Blvd., for Austin Hotel Co., 321 North Central Ave. Noted Apr. 19.

Kan., Wichita—OFFICE and GARAGE—H. L. Pethel, 420 South Bluff St., 4 story, basement, 50 x 140 ft., brick, steel, stone top addition, South Lawrence St., day labor. $150,000. S. S. Voigt, 522 South Lawrence St., archt.

Mo., St. Louis — APARTMENT — Meyer Finkelstein, et al, c/o 800 Washington Ave., 20 story, basement, 100 x 200 ft., rein.-con., brick, stone, terra cotta, incl. garage in basement, to J. W. Kopman Constr. Co., 4525 Lindell Blvd. Est. $1,900,000. Noted June 28.

Mo., St. Louis—EXPRESS and OFFICE—Terminal R.R. Assn. of St. Louis, H. Miller, pres., 1800 Market St., 2 and 4 story, basement, 70 x 700 x 200 ft., rein.-con., brick, steel, 18th St. and Clark Ave., to Dwight P. Robinson & Co., Inc., 125 East 46th St., New York. Est. $850,000. Noted July 19.

Mo., St. Louis—FRUIT EXCHANGE—Wabash Ry. Co., 1765 Railway Exch. Bldg., 1 story, 56 x 640 ft., and 3 story 82 x 140 ft., rein.-con., brick, 2nd and Carr Sts., to Boaz-Kiel Constr. Co., Ambassador Theatre Bldg. Est. $850,000.

Ore., St. Helena—HOTEL—R. L. Deaver, Bd. Trade Budg., Portland, 4 story, basement, 45 x 80 ft., brick, timber, Plaza and Columbia Sts. $150,000. Owner builds. Private plans.

Calif., Los Angeles — APARTMENT—United Pacific Securities Co., 2504 West 7th St., steel, brick filler walls, Wilshire Blvd. and Commonwealth Ave., day labor and segregated contracts. $1,000,000.

Calif., Los Angeles—BANK and OFFICE—Federal Reserve Bank, 4 story, basement, rein.-con., steel, 10th and Fowler Sts., to P. J. Walker Co., Garland Bldg., $800,000.

Buildings—Industrial

Proposed Work

Mass., Millbury—POWER PLANT—A. D. Windle Co., Howe Ave., electric power plant. $40,000 or more. Engineer and architect not selected.

Mass., Worcester — LAUNDRY — Hovey Laundry Co., 41 Austin St., plans by A. J. Smith, 58 Front St., 4 story, basement, 60 x 80 ft., brick, steel, terra cotta addition plain found. $50,000.

Conn., Hartford — SERVICE — Hartford Gas Light Co., 565 Main St., 1 story, brick, steel, Prospect St. $60,000. Private plans.

Conn., Norwich — PLANT — American Thermos Bottle Co., Laurel Hill Ave., brick, steel addition, 50,000 sq.ft. floor capacity. $125,000. Private plans.

N. Y., Brooklyn—SERVICE GARAGE—A. M. Schaedle, c/o S. F. Oppenheim, Inc., archts., 156 East 42nd St., New York, 1 story, 70 x 193 ft., brick, concrete, Manhattan Ave. and Devoe St. $45,000.

N. Y., New York—BAKERY and STORE—Leland Constr. Co., 601 East Tremont Ave., J. Gadde, pres., plans by L. Pisciotta, 1912 Arthur Ave., brick, Huntspoint and Spofford Sts. $40,000.

N. Y., New York—SERVICE GARAGE—W. Hagedour, 1895-1st Ave., plans by C. Schaefer, 332 East 149th St., 2 story, 100 x 148 ft., concrete, brick, Jerome Ave. and 182nd St. $85,000.

N. Y., New York—SERVICE GARAGE—Weprin & Glass Building Corp., H. Weprin, pres., 145 West 27th St., plans by C. N. Whinston, 2 Columbus Circle, 1 and 2 story, 100 x 200 ft., brick, concrete, Longfellow and Seneca Aves. $50,000.

N. Y., New York—SUB-STATION—New York Edison Co., 130 East 15th St., postponed construction 3 story, 50 x 99 ft., brick, timber, 123 East 83rd St. W. Whitehill, 709 6th Ave., archt. Noted June 21.

N. Y., Ossining — SUB-STATIONS — Northern Westchester Lighting Co., plans by T. E. Murray, archt. and engr., 55 Duane St., New York, 2 sub-stations, near here, $170,000.

N. Y., Tonawanda — FACTORY — Natl. Grinding Wheel Co., A. Russ, pres., 2984 Main St., Buffalo, soon takes competitive bids 2 story, 40 x 100 ft., and 1 story 80 x 100 ft. factory, and 1 story office buildings. $60,000. L. A. Harding Constr. Corp., 1335 Main St., Buffalo, engrs. and archts.

N. J., North Bergen (Ind. br. Weehawken) — EMBROIDERY SHOP and GARAGE—C. Liepig, c/o G. Willoredt, archt., 413 23rd St., West New York, 2 story, basement, brick, plain found., 25th and Smith Sts. $40,000.

O., Cleveland — WAREHOUSE — Nickel Plate Development Co., c/o A. C. Harvey, ch. engr., Terminal Tower, 1 story, 50 x 261 ft., brick, steel, Central Ave. and Commercial Rd. $150,000. Private plans.

Ind., Indianapolis—SERVICE BUILDING and POWER PLANT—See "Buildings-Commercial."

Mich., Detroit — FACTORY — Lane Davenport & Peterson, engrs., 1007 Chevrolet Bldg., soon let contract 2 story, 60 x 60 ft., and 60 x 68 ft., rein.-con., brick, stone, plain found., Woodrow Wilson Ave., for Gorham Tool Co., 2206 12th St. Noted July 5.

Ill., East St. Louis — FACTORY — Parks Airlines, Inc., Missouri Theatre Bldg., St. Louis, Mo., sketches, 1 story, 200 x 850 ft., rein., con. $500,000.

Ark., Blytheville — GAS PLANT — See "Unclassified."

California — AUTO LAUNDRIES — Corporation now being organized 5 rein.-con. laundries, in San Francisco, Oakland, and Los Angeles, $75,000 each. G. L. Rosebrook 1404 Franklin St., Oakland, engr.

Calif., Los Angeles—FACTORY—Victor Talking Machine Co., c/o W. Knowles, archt., 1214 Webster St., Oakland, fireproof, 30,000 sq.ft. floor space. $250,000.

Ont., Walkerville — ASSEMBLING PLANT and POWER HOUSE—Genl. Motors of Canada, H. A. Brown, mgr., Oshawa, soon lets contract 2 story, 500 x 100 ft., and 80 x 100 ft., brick, steel, Howard Ave. $250,000. Hutton & Souter, 6 James St. S., Hamilton, archts.

Bids Desired

Mass., Chelsea (br. Boston)—FACTORY—Beaudette Mfg. Co., Crescent Ave., taking bids altering and constructing 2 story, brick addition. Schein & Levine, 448 Bway., archts. Noted July 14.

R. I., Providence — PRODUCE TERMINAL—July 27, by Produce Wholesale Food Terminal, c/o Jenks & Bellou, archts., 1035 Grosvenor Bldg., 2 story, basement, 85 x 700 ft., and 70 x 700 ft., brick, steel, concrete, Kinsley and Harris Aves. $3,000,000. Noted March 29.

N. Y., Long Island City—HOUSING STATION—Aug. 1, by B. M. Patten, pres. Queens Boro, Queens Subway Bldg., housing station, Betts Ave., Laurel Hill.

N. J., Kearny (Sta. Arlington)—WAREHOUSE—Western Electric Co., 195 Bway., New York, M. Melin, in charge, taking bids general contract 7 story, brick, Central Ave., $1,200,000. Private plans. Foundation for above, to H. Steers, 17 Battery Pl., New York. Noted June 7.

N. J., Newark—RADIO TUBE FACTORY—Sonatrom Tube Co. (Radio Tube Corp.) 88 8th Ave., and Siegler & Greenberg, archts., 264 Market St., taking bids general contract 4 story, basement, 45 x 120 ft., brick, steel, plain found., 57-9 State St., $60,000. Noted July 5.

N. J., Orange — FACTORY — See "Contracts Awarded."

W. Va., Clarksburg—CUTTING ROOM—See "Contracts Awarded."

O., Cleveland—FACTORY and OFFICE—McKinney Tool & Mfg. Co., E. W. McKinney, pres., Arabella Rd. and Roseland Ave., taking bids 1 story, 60 x 60 ft. factory, 1 story, 40 x 40 ft. office building, brick, steel, concrete, Roseland Ave. $40,000. E. G. Hoefler, B. F. Keith Bldg., archt.

Ind., New Harmony—POWER PLANT—July 31, by J. Rutledge, city clk., New Harmony, remodeling power plant, installing 180 hp. oil engine. W. S. Heer Eng. Co., 413 Terre Haute Trust Bldg., Terre Haute, engrs.

Mich., Detroit — SUB-STATION — See "Contracts Awarded."

Mich., Holland—BAKERY—Aug. 2, by Robinson & Co., archts., 715 Michigan Trust Bldg., Grand Rapids, 2 story, basement, 53 x 121 ft. and 1 story, 53 x 113 ft., brick, timber, plain found., for Dutch Tea Rusk Co. $50,000 or more.

Wis., Milwaukee — FACTORY — A. O. Smith Corp., 27th and Keefe Sts., taking bids 1 story, 280 x 720 ft., brick, steel addition, 35th and Keefe Sts. $400,000. Private plans.

Kan., Wichita—PACKING PLANT—F. Dold & Sons, 21st and Lawrence Sts., taking bids 1 story, basement, 100 x 180 ft., brick, rein.-con. 21st and Topeka Sts. $125,000. Herschen & McClaren, 1637 Prairie Ave., Chicago, Ill., engrs. Noted July 19

Mo., Kansas City — GARAGE—Kansas City Power & Light Co., 14th St. and Grand Ave., bids about Aug. 15, 4 story, basement, 135 x 142 ft., rein.-con. $150,000. Private plans.

Ont., Hamilton — KNITTING FACTORY—S. McPhe, archt., 45 Sun Life Bldg., about Aug. 1, 3 story, 75 x 300 ft. rein.-con. factory, for J. R. Moodie Co. $250,000.

Sask., Prince Albert — BOILER ROOM, etc.—July 31, by L. W. Andrew, city clk., excavation, masonry, structural steel roofing, sheet metal for boiler room extension. Contr. A; water tube boilers, automatic underfed type stokers, superheaters, steel stack, forced draft fans, soot blowers, boiler feed pumps, steam valves, piping, regulating and controlling devices, Contr. B, in city electric plant.

Contracts Awarded

Mass., Haverhill — FACTORY — L. H. Hamel Leather Co., 117 Essex St., 1 story, basement, 60 x 160 ft., brick, timber, plain found., Locke St., to J. Roche, Haverhill. Est. $40,000 to $50,000.

Mass., Swampscott (Ind. br. Lynn)—SERVICE and REPAIR—F. I. Richardson, 26 New Ocean St., 1 story, 70 x 150 ft., brick, stone, plain found., Kings Beach, to R. A. Morrison Constr. Co., 7 Munroe St., Lynn. Est. $50,000. Noted June 28.

N. Y., Binghamton—FACTORY—Fairbanks Valve Co., Lafayette and Broome Sts., 2 story, rein.-con., to A. W. Bowe Press Bldg. Est. $125,000. Noted Apr 5

N. Y., Brooklyn—FACTORY—Wendell & Evans, 40 Washington Sq., New York, altering 2 story, 12th St. and 3rd Ave., to J. Auer, 648 Lexington Ave. Est. $40,000. Noted June 14.

N. Y., Lockport—POWER HOUSE—Palace Laundry Co., 10th and Pine Sts., Niagara Falls, general contract 2 story, 46 x 55 ft., 10th and Pine Sts., to Scrutari Constr. Co., 825 15th St., Niagara Falls. Est. $60,000.

N. J., Irvington (br. Newark)—PIPE PLANT—American Metal Moulding Co., 146 Coit St., general contract 1 story, 52 x 200 ft., brick, tile, plain found., to Enstice Bros., 11 Academy St., Newark. Est. $40,000. Noted July 19.

N. J., Orange—FACTORY—W. E. Wright & Sons Co., 501 Highland Ave., 1 story, 75 x 105 ft., brick, steel, plain found., separate contracts. $40,000. E. C. Epple, 44 Commerce St., Newark, archt.

N. J., West New York—LAUNDRY—Ideal Laundry Co., Palisade Ave., 2 story, 75 x 80 ft., rein.-con., steel, white enamel brick addition, plain found., to Herring Bros., 236-31st St., Woodcliffe. Est. $40,000.

W. Va., Clarksburg—CUTTING ROOM—Pittsburgh Plate Glass Co., Frick Bldg., Pittsburgh, Pa., 4 story, 150 x 400 ft., brick, steel addition, separate contracts. $150,000. Private plans.

O., Cincinnati—FACTORY—Andrews Jergens Co., Spring Grove Ave., 6 story, 61 x 147 ft., rein.-con., brick, plain found., Spring Grove, to -Ferro Concrete Co., Elm St., $100,000. Noted May 17.

O., Cleveland — PACKING PLANT—Hildebrandt Provision Co., H. A. Hildebrandt, secy.-treas., 3620 Clarks Ave., 3 story, basement, 105 x 127 ft., brick, rein.-con., 3620 Clark Ave., to Boldt-Rapp Co., 5511 Euclid Ave. Est. $150,000.

Mich., Detroit—SUB-STATION—Detroit Edison Co., 2000-2nd Blvd., 2 story, basement, rein.-con., brick, steel, plain found., Rademacher Ave., day labor. $400,000.

Mich., Highland Park (br. Detroit)—PLANT—Chrysler Motor Corp., 2 story, basement, 71 x 93 ft., steel, heavy concrete machine found., here, to Everett Winters Co., 1651 East Grand Blvd., Detroit. $75,000.

Mich., Saginaw—OFFICE, etc.—Chevrolet Motor Car Co., rein.-con., steel additions to office and locker, pattern, cleaning, core and foundry, oil storage, acetylene gas buildings, power house and oil storage pit, to Everett Winters Co., 1651 East Grand Blvd., Detroit, $2,000,000.

Ill., Chicago — PLANT — David Luptons Sons Co., Tulip St. and Allegheny Ave., masonry and painting contracts 1 story, 150 x 500 ft., to Foltz & Co., 510 North Dearborn St.; plumbing, to G. Hill Co., 6314 South Central Ave.; heating, to J. H. McCauley, 5321 West 65th St.

Ill., Chicago—FACTORY—Mills Novelty Co., 4100 Fullerton Ave., masonry and carpentry contract 4 story, 60 x 229 ft., brick, 4100-18 Fullerton Ave., to G. Thompson & Son Co., 30 North La Salle St. Est. $120,000.

Wis., Appleton — FOUNDRY — Appleton Machine Co., 618 Oneida St., 1 story, 80 x 100 ft., brick, steel addition, to J. W. Nerhood, 224 North Catherine St.

Minn., Minneapolis—BAKERY—Zinsmaster Baking Co., Sherburne St. and Park Ave., St. Paul, general contract 2 and 4 story, basement, rein.-con., brick, East 29th St. between Park and Oakland Aves., to Pike & Cook, 416 South 5th St. Est. $175,000.

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Buildings—Industrial (Continued)

Tex., Pyote — REFINERY PLANT — Amarillo Producers & Refiners Corp., c/o J. W. Warthar, Amarillo, 3,000 bbl. capacity, near here. $150,000. Owner builds.

Buildings—Educational, Religious

Proposed Work

N. H., Laconia—CHURCH—St. Joseph's Roman Catholic Church, T. Redding, pastor, sketches by J. J. O'Shaughnessy, and Smith & Walker, associate archts., 80 Boylston St., Boston, Mass., 1 story, basement, brick, stone, plain found., Church St. $150,000.

Mass., Ashland—SCHOOL—Town, Building Com., c/o W. H. Brainerd Associates, archts., 89 Franklin St., Boston, 2 story, basement, 60 x 140 ft., brick, stone, plain found., near Town Hall. $150,000.

Mass., Framingham—SCHOOL—Town, C. A. Potter, chn. com., 6 Beaumont Bldg., sketches by E. I. Wilson, 2 story, basement, brick, stone, plain found., Beacon and Leland Sts. $150,000. Noted Feb. 16.

Mass., Lynn—HIGH SCHOOL—City, R. S. Bauer, mayor, City Hall, sketches by Sanborn & Weed, Item Bldg., Central High School, Memorial Park. $1,000,000. Noted Jan. 19.

Mass., Melrose (Ind. br. Boston)—CHURCH and PARISH HOUSE—Unitarian Congregational Church, H. T. Secrist in charge, Emerson St., church and parish house, Emerson and Myrtle Sts. $150,000 funds being raised for same. Engineer and architect not selected.

Mass., Westfield—HIGH SCHOOL—City, High School Comn., plans by M. B. Harding, 6 Main St., brick, steel, Chauncey Allen Park. $500,000. R. M. Sizer, 12 Elm St., engr.

R. I., Providence—HIGH SCHOOL—Pub. Building Dept. plans by T. J. H. Pierce, City Hall, Junior High School, brick, steel, Broad St. To exceed $150,000.

N. Y., Buffalo—SCHOOLS—Bd. Educ., Genesee Bldg., plans by E. Crimi, Genesee Bldg., addition to School 33, incl. 4 classrooms, auditorium, gymnasium, cafeteria, manual training, domestic, art and science depts., kindergarten, boiler room, 757 Elk St., $21,000; addition to School 44, Bway. and Krupp Sts., $352,000 and $603,150; addition to School 19, incl. 19 classrooms, gymnasium, auditorium, cafeteria, manual training, domestic art and science depts., kindergarten, West Ave. and West Delavan Ave., $390,000; addition to School 17, incl. 8 classrooms, auditorium and boiler room, 1820 Main St., $154,000.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., plans by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, School 92, 4 story, brick, 178 Clinton St. $912,000.

N. Y., Uniondale—SCHOOL—Bd. Educ. Dist. 2, Nassau Rd., Hempstead, H. Weston, pres., soon lets contract 2 story, brick, $230,000. Coffin & Coffin, 522 5th Ave., New York, archts.

N. J., Cliffside—SCHOOL—Bd. Educ., Boro Hall, sketches by Cadeen & Pierson, 545 Gorge Rd., Grantwood, 2 story, basement, brick, steel, plain found., West Grantwood Sect. $350,000.

N. J., Fort Lee — SCHOOL — Madonna Parochial School, J. W. Corcoran, pastor, Jones Rd., 2 story, basement, 137 x 165 ft., brick, steel, plain found., Whiteman and Hoym Sts. $150,000.

N. J., Gladstone—ORPHANAGE—Villa O'Connor Orphanage, C. W. Feigenspan, treas., bids in September or October, 2 story, basement, brick, steel, plain found. Somerset Co. $150,000. De Pace & Juster, 6 East 46th St., New York, archt. Noted Feb. 28.

N. J., Hackensack—SCHOOL—Bd. Educ., J. Sturge, pres., 355 State St., sketches by A. E. Dore, 173 Main St., 2 story, basement, 50 x 120 ft., and 50 x 100 ft., brick, steel wings, plain founds., Grand St. and Fairmount Ave., $281,430. Noted July 5

N. J., North Bergen (Ind. br. Weehawken)—HIGH SCHOOL—Bd. Educ., Town Hall, 3 story, basement, brick, steel, plain found. $500,000. Engineer and architect not selected.

N. J., Paterson—SCHOOL—Bd. Educ., City Hall, plans by J. Van Vlandren 140 Market St., Roosevelt School, 2 story, basement, brick, steel, plain found. $150,000. Noted Apr. 26.

N. J., South River—HIGH SCHOOL—Bd. Educ., Boro Hall, revised sketches by A. Merchant, 52 Patterson St., New Brunswick, 2 story, basement, brick, steel, plain found. $150,000. Noted May 31.

La. Amite—SCHOOL—Tangiphoa Parish, Bd. Educ., c/o W. J. Dunn, supt., bids in September, 2 story, rein.-con., brick, stone. $150,000. R. H. Goodman, Bank of Baton Rouge Bldg., Baton Rouge, archt. Noted June 21.

O., Akron—SCHOOL—Bd. Educ., plans by M. M. Konarski, Central High School Bldg., Andrew Jackson Grade School, 2 story, basement, brick, steel, concrete.

O., Cleveland—HOME—Home for Aged Women, c/o Wright & Hohl, archts., 4614 Prospect Ave., 2 story, basement, 35 x 230 ft., brick, steel, concrete addition, East Blvd. $200,000.

O., Delaware — DORMITORIES, etc. — Ohio Wesleyan University, sketches by Walker & Weeks, 2341 Carnegie Ave., Cleveland, brick, steel, concrete, incl. women's building and religious center. $1,000,000.

Ind., Gary—HIGH SCHOOLS—Bd. Educ. plans by W. B. Ittner, 911 Locust St., St. Louis, Mo., Roosevelt and Lew Wallace High Schools, each 2 story, rein.-con., brick, stone. $500,000 each.

Mich., Bay City—SCHOOL—Bd. Educ. plans by J. Goodeyne, Crapo Bldg., 2 story, basement, rein.-con., brick, steel, plain found., Attica School Site. $160,000.

Mich., Grosse Pointe (br. Detroit)—SCHOOL—Scared Heart Convent, plans by Maginnis & Walsh, Statler Bldg., Boston, Mass., 3 story, basement, brick, limestone, plain found. To exceed $150,000.

Ill., Chicago — HISTORICAL — Chicago Historical Society, 632 North Dearborn St., sketches by Graham, Anderson, Probst & White, 80 East Jackson Blvd., 2 story, basement, incl. auditorium, near North Ave. and Clark St. $1,000,000.

Wis., Milwaukee—OLD PEOPLES HOME—Scandinavian Am. Old Peoples Home, c/o Leenhonts & Guthrie, archts., 424 Jefferson St., taking bids 2 story, English basement, 74 x 113 ft., brick concrete, Vieau Pl.

Mo., Maplewood (br. St. Louis)—HIGH SCHOOL—Bd. Educ., c/o J. J. Bridell, pres., 7415 Flora St., plans by W. B. Ittner, 911 Locust St., St. Louis, 2 story, basement, rein.-con., brick, stone, $195,000.

Okla., Tulsa — SCHOOL — Bd. Educ., sketches school. $1,500,000 bond election soon for same. Engineer and architect not selected.

Calif., Inglewood — HIGH SCHOOL — Inglewood Union High School Dist., sketches by T. C. Kistner Co., 814 Architects Bldg., Los Angeles, 2 story administration, 1 story manual arts, 1 story cafateria and lunchroom, rein.-con., brick, Lawndale Sect. $400,000 bonds voted for same.

Calif., Pomona—HIGH SCHOOL—Pomona City High School Dist., plans by T. C. Kistner & Co., 814 Architects Bldg., Los Angeles, 2 story, 217 x 290 ft. adminstration, 1 story, 50 x 160 ft. manual arts buildings, rein.-con., timber. Garey St. $275,000.

Bids Desired

Massachusetts — NURSES' HOME — See "Buildings—Commercial."

Mass., Arlington (br. Boston) — HIGH SCHOOL—July 31, by Town Bd. Selectmen and H. B. S. Prescott, archt., 12 Pearl St., Boston, altering and constructing 2 story, basement, 65 x 105 ft., and 30 x 50 ft., brick, stone addition to West Junior High School, plain found. incl. assembly hall and gymnasium, Fessenden Rd. $175,000. Noted Apr. 26.

Mass., Fitchburg — CHURCH — Aug. 6 (extended date), by Christ Church, A. V. Bennett, pastor, altering and constructing concrete, stone addition, Fox and Main Sts. $225,000. H. Upjohn, Grand Central Terminal, New York, archt. Noted July 19.

Mass., Framingham—SCHOOLS—Town, J. J. Slattery, chn. com., taking bids altering and constructing two 2 story, basement, brick additions, plain founds. $150,000. G. Marlow, 234 Boylston St., Boston, archt.

Conn., Stamford — COMMUNITY — July 27. by Stamford Jewish Centre, H. Frankel, 262 Atlantic St., 3 story, basement, brick, stone, plain found. $150,000. D. Levy, 110 East 42nd St., New York, archt. Noted Mar. 15.

N. Y., Granville—HIGH SCHOOL—July 27. by Bd. Educ., W. L. Munson, chn., General contract 2 story, brick. $300,000. A. E. Gilbert, 358 5th Ave., New York, archt. Noted June 28.

N. Y., New York—SCHOOL—Aug .7, by W. C. Martin, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract P.S. 187, Northern Ave. and West 187th St., for Bd. Educ., 500 Park Ave.

N. J., Cresskill — SCHOOL — Bd. Educ., Boro Hall, bids about Aug. 15, 2 story, basement, brick, steel, plain found. $450,000. Hacker & Hacker, 201 Main St., Fort Lee, archts. Noted Dec 29.

N. J., Pleasantville—HIGH SCHOOL—Aug. 28, by C. J. Smith, 3rd St. and Washington Ave., Senior High School, 3 story, basement, 200 x 220 ft., rein.-con., brick, plain found. S. H. Vaughn, Guarantee Trust Bldg., Atlantic City, archt.

Mich., Detroit—SCHOOL—July 30, by Bd. Educ., C. A. Gadd, bus. mgr., 1354 Bway. Ave., 2 story, basement, 142 x 155 ft., brick, steel, concrete, stone, Mt. Elliott Ave. $150,000. N. C. Sorensen, 2231 Park Ave., archt.

Mich., Grand Rapids—CHURCH and SUNDAY SCHOOL—Aug. 10, by Robinson-Campan, associate archts., 715 Michigan Trust Bldg., 1 story, basement, 48 x 102 ft. auditorium, 3 story, basement, 109 x 485 ft. school, brick, plain found., for East Congregational Church, 370 Norwood St. S.E. $150,000. Cram & Ferguson, 248 Boylston St., Boston, Mass., archts. Noted May 10.

Ind., Sheridan—HIGH SCHOOL—School Comrs., bids about Aug. 15, 2 story, basement, rein.-con., brick, steel, stone. $250,000. McGuire & Shook, North Meridian St., Indianapolis, archts. Noted May 24.

Wis., Milwaukee—CHURCH—Aug. 1, by F. S. Gurda, archt., 448 Mitchell St., 1 story, basement, 86 x 123 ft., brick, tile, stone, 15th and Buher Sts., for St. Adelbert's Catholic Congregation, W. Kruszka, pastor, 825 Becher St. Noted Mar. 8.

Wis., Sheboygan — HOME for AGED — Foelber, Schober & Berners, archts., Green Bay, taking bids 3 story, basement, 50 x 115 ft., fireproof addition, for Home for Aged, A. M. Reiss, 1430 West 9th St.

Calif., Burbank—HIGH SCHOOLS—Bd. Educ., taking bids 2 story 55 x 200 ft. art stone, timber addition, Burbank St., $150,000; Valley Junior High School, 1 and part 2 story, 65 x 287 ft., brick, art stone, Burbank St., $150,000. F. D. Rutherford Mills-Frasier Bldg., Santa Monica, archt.

Contracts Awarded

Me., Skowhegan—HIGH SCHOOL—Town c/o W. B. Woodbury, supt. schools, 2 story, basement, 110 x 160 ft., brick, stone, plain found., to G. W. Lane Co., 82 Pierce St., Lewiston. Est. $150,000. Noted June 28.

Mass., Fall River—HIGH SCHOOL—City, W. H. Monks, Mayor, Granite Blk., 3 and 6 story, basement, 145 x 240 ft., brick, granite, plain found., to Greany & Sherry, 827 Davol St., $759,000; heating and ventilating system, to G. Montle, 1247 Pleasant St., $91,000; plumbing system, to T. Helme, 231 New Boston Rd., $53,000; electrical work, to Crawford Electric Co., 419 2nd St., $36,000. Grand total $939,000. Noted June 21.

Mass., Springfield — SCHOOL — City, P. Buildings Dpt., City Hall, altering and constructing 2 story, basement, brick, addition, plain found., to E. J. Pinney, Inc., 220 Dwight St., $168,547. Noted July 5.

Conn., West Hartford (br. Hartford) — SCHOOL—Kingswood School, T. W. Russell, chn., 4 buildings, incl. gymnasium, student, auditorium and headmasters' residence, in Kingswood, to R. G. Bent & Co., 93 Edwards St., Hartford. Est. $225,000. Noted June 14.

N. Y., Brooklyn—SCHOOL—Bd. Educ., 500 Park Ave., New York, general contract P. S. 194, to T. J. Hoey, $311,000; heating, to D. J. Rice, 606-1st Ave., New York, $53,000. Noted June 13.

N. Y., Long Island City—SCHOOL—Bd. Educ., 500 Park Ave., New York, general contract Queens Vocational and Continuation School, 47th Ave., to Wilaka Constr. Co., Inc., Ocean View Ave. and Humbart St., Brooklyn, $538,480; plumbing, to Endres & Hampton, 69 Radde St., $31,245; heating, to Clermont Heating Co., 480 Clermont Ave., Brooklyn, $69,280. Grand total $630,005. Noted June 21.

N. Y., New York—HIGH SCHOOL—Bd. Educ., 500 Park Ave., general contract Seward Park High School, Ludlow, Broome, Essex and Grand Sts., to Psaty & Fuhrman, Inc., 153 West 72nd St., $1,488,250; plumbing, to Hyman Homer, $108,925; electrical work, to Jandous Electric Equipment Co., 210 East 40th St., $51,860. Grand total $1,649,035. Noted June 21.

N. J., Nutley (br. Newark)—SCHOOL—Bd. Educ., Franklin Ave., general contract 2 story, basement, 100 x 128 ft., brick, steel, addition to Yatacaw School, plain found., to Schaedel Bros. Co., 130 Bruce St., Newark, $211,604. Noted July 12.

N. J., Orange—SCHOOL—Church of Our Lady of the Valley, J. J. Smith, pastor, 510 Valley St., general contract 2 story, basement, 124 x 134 ft., brick, steel, plain found., Valley and McChesney Sts., to C. J. Schubert, 93 Arsdale Terrace, East Orange. Est. $150,000.

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Buildings—Educational, Religious (Cont'd)

N. J., Plainfield—CHURCH and HALL—A. Humble, archt., 551 Fifth Ave., New York, general contract 2 story, basement, 40 x 62 ft., and 36 x 71 ft., brick, stucco wings, plain found., to A. Milne, 15 Natchung Ave., for Hydewood Park Baptist Church, R. E. Pierce, pastor, 122 Lenox Ave. Est. $150,000. Noted June 28.

N. J., Somerville—CHURCH and PARISH HOUSE—P. C. Van Nuys, archt., 1 West Main St., general contract 2 story, basement, 100 x 100 ft., brick, steel, plain found., to G. W. Bond, 66th Ave. and 13th St., for First Methodist Episcopal Church. Est. $150,000. Noted June 28.

N. J., South River—SCHOOL—Bd. Educ., Boro Hall, general contract 2 story, basement, brick, steel, plain found., to J. Check, Jr., 59 Main St., $122,949. Noted July 19.

Pa., Phila. — SCHOOL — J. D. Cassell, supt. buildings, 19th and Chestnut Sts., rein.-con., brick, plain found., to Weiss Constr. Co., 1428 Master St., $385,999. Noted July 19.

O., Canton—SCHOOL—Bd. Educ., J. F. Roos, clk., for J. K. Baxter School, 2 story, basement, 96 x 150 ft., brick, steel, concrete, to R. H. Evans Co., Mellett Bldg., $93,450. Noted June 14.

O., Cincinnati — SCHOOL — St. George School, Calhoun and Scioto Sts., 3 story, basement, rein.-con., brick, plain found., Calhoun St., to S. Hannaford, Dixie Terminal, $180,000.

Ind., Greencastle—CHURCH—Methodist Church, general contract brick, steel, stone, Locust and Spring Sts., to L. Colvin, Continental Bank Bldg., Indianapolis. Est. $200,000. Noted Nov. 3.

Mo., Brookfield—SCHOOLS, etc.—H. P. Pempels, archt., 701 Finance Bldg., Kansas City, general contracts 2 story, basement, 100 x 185 ft., rein.-con., brick, stone high school, and 3 story, brick, concrete addition to Adams Grade School, for Bd. Educ., to Busboom Bros., Carthage, $122,500 and $17,500 respectively; plumbing, heating on both schools, to Judd Plumbing, Heating & Supply Co., 513 East 13th St., $27,544. Grand total $167,544. Noted May 10.

Calif., Santa Barbara—SCHOOL— G. B. McDougall, state archt., Sacramento, general contract 2 story, basement, 64 x 296 ft., rein.-con. science building, State Teachers College, to Barkelew & Gould, 2813 Glendale Blvd., Los Angeles, $132,109. Noted June 7.

B. C., Vancouver—SCHOOL—Bd. School Trustees, 590 Hamilton St., Technical School, to Carter, Halls-Aldinger Co. Ltd., 500 Beatty St., Vancouver, $195,000. Noted July 5.

Federal Government Work

Proposed Work

N. Y., Oswego—RIP RAP STONE—U. S. Engineer Office, Buffalo, rejected bids June 28, on and along breakwater Oswego Harbor. Work will be done by Government Plant. Noted May 31.

D. C., Wash.—LIBRARY—U. S. Government plans by Pierson & Wilson, Hill Bldg., 3 story, granite addition to Congressional Library, 1st and East Capitol Sts. S.E. $387,000. Noted June 7.

N. C., Ft. Bragg—BARRACKS—Quartermaster Dept. barracks building.

Ga., Savannah—DREDGING—U. S. Engineer's Office, rejected bids June 25, 21 ft. channel extension, Savannah Harbor. Work will be done by Government plant. Noted May 31.

Fla., Pensacola—TEST BORINGS—Spec. 5685—Bureau Yards & Docks, Navy Dpt., Wash., D. C., rejected bids July 14, at Naval Air Station.

Bids Desired

Connecticut—DREDGING—Aug. 3, at U. S. Engineer Office, Providence, R. I., Thames River.

Connecticut — DREDGING — Aug. 4, at U. S. Engineer Office, Providence, R. I., maintenance dredging in Housatonic River.

N. Y., Glens Falls—WATERPIPING—July 27, by Treas. Dept., at office Supervising Archt., Wash., D. C., U. S. Post Office.

N. Y., New York—LIGHTING—Aug. 7, by Treas. Dpt. at office Supervising Archt., Wash., D. C., at U. S. Custom House.

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Pa., Beaver Falls—REMODELING—Aug. 16, by Treas. Dpt. at office Supervising Archt., Wash., D. C., remodeling, enlarging U. S. Post Office; adv. E.N.-R. July 26.

La., New Orleans—EARTHWORK—Aug. 6, by U. S. Engineer Office, River Front and Burdette Sts., 6,300,000 cu.yd. in Fourth Mississippi River Dist., Orleans Co.

Ind., Hammond—REMODELING—Aug. 15, by Treas. Dpt. at office Supervising Archt., Wash., D. C., Post Office.

Mich., Wyandotte—FOUNDATION—July 21, by Treas. Dept., at office Supervising Archt., Wash., D. C., for U. S. Post Office.

Ill., Chicago—BARGE—Aug. 16, by U. S. Engineer Office, 537 Dearborn St., steel barge, adv. E. N. R. July 26.

Ill., Paxton—POST OFFICE—Aug. 20, by Treas. Dept. at office Supervising Archt., Wash., D. C., constructing U. S. Post Office. J. A. Wetmore, acting supervy. archt.

Neb., Omaha—WATER PIPING—Aug. 6, by Treas. Dpt. at office Supervising Archt., Wash., D. C., at U. S. Post Office.

South Dakota—SIPHON—Aug. 13, by Bureau Reclamation, Denver, Colo., replacing Deer Creek Siphon, Deer Creek Lateral, Belle Fourche Project.

S. D., Mitchell—EXTENSION—Aug. 17, by Treas. Dpt. at office Supervising Archt., Wash., D. C., extending, remodeling U. S. Post Office.

Tex., Fort Sam Houston (sta. San Antonio)—BARRACKS—Aug. 13, at office Constructing Quartermaster, 2 infantry battalion barracks; adv. E. N.-R. July 26. Noted May 31.

Colorado—ROAD—Aug. 3, by Bureau Pub. Rds., Custom House, Denver, grading 2.58 mi. Sect. D, South St. Vrain Natl. Forest Hy., Larimer Co. J. W. Johnson, Custom House, dist. engr.

Colo., Denver—STEEL PIPE—Aug. 1, by Bureau Reclamation, 1,675 ft. 36 in. steel pipe.

Wash., Ellensburg—CANAL—Aug. 7, at office Bureau Reclamation, South Branch Canal, Kittitas Div., Yakima Project, near here. P. W. Dent, acting comr.

Ore., Salem—REMODELING — Aug. 21, by Treas. Dpt. at office Supervising Archt., Wash., D. C., remodeling, enlarging U. S. Post Office. J. A. Wetmore, acting superv. Archt.; adv. E.N.-R. July 26.

Bids Received

D. C., Wash.—DRAW SPAN—Executive officer Arlington Memorial Bridge Comn., Navy Bldg., July 16, bascule draw span for Arlington Memorial Bridge, from Bethlehem Steel Co., Bethlehem, Pa., $1,091,580; granite, from Hallowell Granite Wks., Augusta, Me., $18,000. Noted June 14 and 28.

Va., Ft. Myer—THEATRE—Constructing Quartermaster, July 10, theater, from W. H. Dawson, $28,432.

Va., Hampton Roads—STOREHOUSE—Spec. 5623—Bureau Yards & Docks, Navy Dpt., Wash., D. C., at Naval Operating Base, from Virginia Eng. Co., 1st Natl. Bank Bldg., Newport News **(1a)** $196,497 **(1b)** $196,497 **(1c)** $209,022. Noted July 12.

Ga., Savannah — TRAINING WALL — U. S. Engineer Office, July 9, in Savannah River, from Atkinson Dredging Co., West Palm Beach, Fla., $32,250 and $33,250. Noted June 7.

Fla., Jacksonville — CHANGES — Treas. Dept. at office Supervising Archt., Wash., D. C., July 16, at U. S. Post Office; from Johnson Finance & Constr. Co., Jacksonville, $16,000. Noted.

La., Carville—ENGINE GENERATOR—Treas. Dpt. at office Supervising Archt., Wash., D. C., July 19, at Lepers Home, from M. H. Pagenhardt Co., 2130 Locust St., Phila., Pa., $15,372. Noted July 5.

Tenn., Memphis—EARTHWORK—Mississippi River Comn., 1st and 2nd Dists., 1006 McCall Bldg., July 6, 730,000 cu.yd. excav. in West Cairo Levee D. D., from J. L. Ward Constr. Co., 11000 Wade Park Ave., $349,-670; 612,000 cu.yd. in Reelfoot Levee Dist., from F. C. Morgan, Moratt Hotel, Indianapolis, Ind., $151,260; 105,000 cu.yd. in Reelfoot Levee Dist., from C. I. Jones, 4961 Laclede Ave., St. Louis, Mo., $52,185; 525,000 cu.yd. in Reelfoot Levee Dist., from A. A. Davis & Co., 300 City Bank Bldg., Kansas City, Mo., $136,500; 10,800 cu.yd. in Reelfoot Levee Dist., from Forcum Jones and C. I. Jones, Dyersburg, $46,440 each; 225,000 cu.yd. in Lower St. Francis Levee Dist., from W. W. Roth, Hickman, $47,250; 190,000 cu.yd. in Lower St. Francis Levee Dist. from C. C. Adderholdt, Memphis, $91,200; 1,265,000 cu.yd. Upper Yazoo Levee Dist., from Canal Constr. Co., McCall Bldg., $308,028; 195,000 cu.yd. in Upper Yazoo Levee Dist., from H. J. Kaiser, 1522 Latham Sq. Bldg., Oakland, Calif. $60,840; 106,000 cu.yd. White River Levee Dist., from G. C. Weathers, Jr., Greenville, Miss., $34,768. Noted June 21.

Tenn., Paris—EXTENSION—Treas. Dpt. at office Supervising Archt., Wash., D. C., extension, remodeling U. S. Post Office, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $46,000. Noted June 14.

Ky., Louisville — PUMP HOUSE, etc. — U. S. Engineer Office, July 9, brick and concrete pump house, concrete lined pump pit at Lock and Dam 51, Ohio River, from J. Wardrop & Sons, Golconda, Ill., $7,969 (75 days). Noted June 28.

O., Wooster—EXTENSION—Treas. Dpt. at office Supervising Archt., Wash., D. C., July 13, extending, remodeling U. S. Post Office, from S. Plato, Akron, $58,318. Noted June 21.

Ill., Chicago—ROADWAYS, etc.—Supervising Archt., Wash., D. C., new roadways, walks at U. S. Marine Hospital, from C. E. Carson Co., 601 St. Clair St., $28,880.

Neb., Hastings—REMODELING—Treas. Dpt. at office Supervising Archt., Wash., D. C., July 20, U. S. Post Office, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $27,110. Noted June 28.

Wyoming—ROADS — Bureau P. Roads, Denver, grading 2.92 mi. Hoback-Canyon-Granite Creek Sect., Teton Co., from Western Bridge & Constr. Co., 3867 Leavenworth St., Omaha, Neb. $81,652.

Missouri — REVETMENT — U. S. Engineer Office, Kansas City, revetment work on Missouri River bank, 8,500 ft. standard at Brunswick Bend, from Kansas City Bridge Co., 510 Orear Leslie Bldg., $180,-042; 3,600 ft. clump dike at Chamois Bend, from Bilhorn, Bowers & Peters, Railway Exch. Bldg., St. Louis, $105,126; 4,800 ft. pile clump dikes at De Witt Bend and 1,400 ft. at Brunswick Bend, from Wood Bros. Constr. Co., 132 West 13th St., Lincoln, Neb., $132,823 and $47,328 respectively. Noted June 28.

Tex., Ft. Sam Houston (Sta. San Antonio) —PLANT—Quartermaster Dep., refrigerating and ice making plant, from Sumner-Sollitt Natl. Bank of Commerce Bldg., San Antonio, $9,939 (45 days).

Ariz., Tucson—BUILDINGS—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., July 17, additional at U. S. Veterans Hospital, from General Constr. Co., 1800 East 46th Ave., Denver, Colo., $186,200. Noted June 21.

Wash., Walla Walla—TANK and TOWER —U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., July 17, at U. S. Veterans' Hospital, from Chicago Bridge & Iron Co., 1015 Chestnut St., Phila., Pa., $11,200 (15 days). Noted June 21.

California—BRIDGE—Dpt. Interior Natl. Park Serv., San Francisco, July 12, bridge, culvert on Part 1, Sect. B, Yosemite Natl. Park Hy. System, from Schuler & McDonald, 1723 Webster St., Oakland, $34,939.

California—ROAD—C. H. Sweeteer, dist. engr. U. S. Bureau P. Rds., 461 Market St., San Francisco, grading 4.207 mi. Strawberry-Phillips Sect. Placerville-Lake Tahoe Natl. Forest Hy., Eldorado Co., from H. Lovelace, 5811 Patton St., Oakland, Calif. $137,831. Est. $129,684. Noted June 28.

California—ROAD — U. S. Bureau P. Roads, 461 Market St., San Francisco, grading 5.99 mi. Natl. Lassen Natl. Forest Hy., from Young Bros., Berkeley, $69,802.

Contracts Awarded

N. Y., New York—REPAIRING PIERS —Treas. Dept. at office Supervising Archt., Wash., D. C., at Quarantine Station, to General Constr. & Eng. Co., 40 Rector St., $4,126.

Pa., Carlisle — REMODELING — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to Agostini Bros., 243 Arcade Bldg., Norfolk, Va., $20,585. Noted July 13.

Pa., Phila.—DREDGING—Spec. 5624—Bureau Yards & Docks, Navy Dept., Wash., dredging Navy Yard, to Amer. Dredging Co., Mar. & Mer. Bldg., $100,000. Noted July 5.

Delaware and Maryland—DREDGING—U. S. Engineer Office, Wilmington, Del., Inland Waterway from Delaware River to Chesapeake Bay, (Chesapeake and Delaware Canal), to Atlantic, Gulf & Pacific Co., 18 Park Row, New York, $326,089. Noted May 31.

Ga., Canton — POST OFFICE — Treas. Dept. at office Supervising Archt., Wash. D. C., U. S. Post Office, to A. M. Lundberg, Federal Reserve Bank Bldg., St. Louis, Mo., $49,600. Noted June 21.

Fla., Key West—DREDGING, etc.—U. S. Engineer's Office dredging 8,600 cu.yd. rock from harbor, to Clark Dredging Co., Miami, Fla., $29,240. Noted June 7.

Miss., Vicksburg — TERMINAL — Inland Waterways Corp., Mississippi Warrior Serv., 320 Magazine St., New Orleans, La., reconstructing river and rail terminal, to Hampton Reynolds Maison Blanche Bldg., New Orleans, La. $110,000. Noted June 7.

Ky., Louisville—LOCK GATES—U. S. Engineer Office, span mitering lock gates for Ohio River locks and dam, to Nashville

Federal Government (Continued)

Bridge Co., foot Shelby Ave., **Nashville, Tenn.**, $57,670. Noted June 7.

O., Cleveland—HOSPITAL—Treas. Dept. at office Supervising Archt., Wash., D. C., marine hospital, to J. H. Wiese Co., Omaha, Neb., $294,970 (420 days).

Ind., Bloomington — REMODELING — Treas. Dept., at office Supervising Archt., Wash., D. C., U. S. Post Office, to D. Bright, Clinton, $18,870. Noted June 28.

Ill., Galena — BOILER HOUSE — Treas. Dpt. at office Supervising Archt., Wash., D. C., at U. S. Post Office and Custom House, to Continental Constr. Co., Fort Dodge, Ia., $5,626. Noted July 12.

Mo., Kansas City—PILING—U. S. Engineer Office, purchasing, to Western States Lumber Co., 1417 R. A. Long Bldg., Kansas City, Mo., $48,579.

Washington — DREDGING—Spec. 5686—Bureau Yards & Docks, Navy Dpt., Wash., D. C., in Puget Sound, to Tacoma Dredge Co., 1113½ St., Tacoma, at $0.97 per cu.yd.

Washington — GATES — Chief Engineer Bureau Reclamation, Denver, Colo., drum gates for Easton Diversion Dam, Kittitas Div. Yakima Project, to Commercial Boiler Wks., Portland, Ore., $14,469. Noted June 7.

Wash., Fort Lewis—ROADS, etc.—Constructing Quartermaster, roads, walks, drainage in barracks area, to R. Keasal, 704 P. S. Bank Bldg., Tacoma, $20,856. Noted June 7.

Wash., Sand Point—GRADING—Spec. 5651—Bureau Yards & Docks, Navy Dpt., Wash., D. C., flying field extension at Naval Air Station, to Rowland Constr. Co., P. O. Box 63, Seattle, Wash., $30,000.

Oregon—TELEPHONE LINE — Bureau Reclamation, Denver, Colo., 19.1 mi. 66,000 volt single circuit wood pile transmission lines, to Helt & O'Donnell, Portland, Ore., $12,327. Noted May 10.

Calif., San Rafael—DREDGING—U. S. Engineer Office Customhouse, San Francisco, 173,300 cu.yd. San Rafael Creek, to Dutton Dredging Co., Mills Bldg., San Francisco, $16,563, and to Longview Dredging & Constr. Co., Longview, Wash., $27,150. Noted July 12.

Unclassified

PROPOSED WORK

PIER, etc.—**Barnstable, Mass.**—F. Schaefer, Barnstable, timber pier and marine railway in West Bay, Osterville section. $25,000 or more. Private plans.

CONTROL TOWER—**East Boston** (sta. Boston), **Mass.**—Boston Chapter of American Aeronautical Assn., c/o Densmore, LeClear & Robbins, archts., Park Sq. Bldg., Boston, sketches 4 story, memorial control tower at airport, incl. memorial, administration, control and observation rooms, beacon light on top.

RETAINING WALL, etc.—**Salem, Mass.**—G. W. Pickering Coal Co., Salem, concrete retaining wall, bulkhead, fill solid in South River. $25,000. Private plans.

SWIMMING POOL—**Brooklyn, N. Y.**—Cypress Hills Swimming Pool, Inc., A. L. Beasley, 119-21 190th St., St. Albans, 60 x 200 ft. swimming pool, filter house, Jamaica Ave. and Crescent St. $324,000. Private plans.

COMFORT STATION — **West New Brighton, N. Y.**—J. A. Lynch, pres. Richmond Boro, Boro Hall, St. George, rejected bids June 13, comfort station, Bway. and Market St. Noted June 7.

GAS DISTRIBUTION MAINS — **Blytheville, Ark.**—J. H. Hawthorne, Jr., Jonesboro preliminary plans 20 mi. gas distribution mains, artificial gas plant. Private plans.

GRAIN ELEVATOR — **Conlen, Tex.** — Blotz-Hennimen Seed Co. 15,000 bu. grain elevator. Private plans.

GAS SYSTEM—**Boise City, Okla.**—Preliminary plans natural gas system. $30,000. A. Anderson, city clk.

GAS PIPE LINE—**California**—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, extending 29,568 ft. 4 in. high pressure transmission and 22,701 ft. 2 in. high pressure distributing mains to serve Belvedere, Tiburon and Corinthian Island. Private plans.

LIGHTING SYSTEM — **Beverly Hills, Calif.**—Ornamental electrolier lighting system on Gregory Way, Le Doux St. $25,000 or more. J. C. Albers, city engr.

SWITCHING STATION — **Hull, Que.** — Gatineau Power Co. switching station at Val Tetreau. $75,000-$100,000.

COAL DOCKS, etc.—**Michipicoten, Ont.**—Algoma Central & Hudson Bay Ry., R. S. McCormick, ch. engr., Bay and Bruce Sts., Sault Ste. Marie, coal docks, new bridge. $300,000.

PLEASURE RESORT—**Mexico**—Owner, c/o Chamber Commerce, Mercedes, Tex., new town and pleasure resort, incl. athletic club $150,000, bull fighting arena, race track, greyhound track, training stables, near new bridge (now under construction) over Rio Grande River, on Mexican side near Mercedes Tex. Total $500,000.

BIDS DESIRED

SUCTION TANK, etc.—**Norfolk, Mass.**—Aug. 6, by Dpt. P. Health State House, Boston, 100,000 gal. flat bottomed steel suction tank with necessary heating equipment, foundation at Pondville State Hospital, for Commonwealth of Massachusetts.

TANK, etc.—**Rutland, Mass.**—Aug. 6, by Dpt. Pub. Health, State House, Boston, 100,000 gal. flat bottomed steel suction tank, with heating equipment foundation, etc. at Rutland State Sanatorium. Private plans.

PIGGERY—**Central Islip, N. Y.**—Aug. 8, by Commissioner Dpt. Mental Hygiene, Capitol, Albany, piggery at Central Islip State Hospital; adv. E. N.-R. July 26.

REFRIGERATION — **Mount Pleasant, N. Y.**—Aug. 6, at office F. L. Merritt, clk. Bd. Supervs, Westchester Co., White Plains, refrigeration in psychiatric pavilion, Grasslands Hospital. Walker & Gillette, 369 Lexington Ave., New York, archts.; adv. E. N.-R. July 26.

ROOF—**Ray Brook, N. Y.**—July 31, by Superintendent Standards & Purchase, Executive Dpt., Capitol, Albany, new roof over employees dining room and kitchen at State Hospital for Treatment of Incipient Pulmonary Tuberculosis; adv. E. N.-R., July 26.

EXIT FACILITIES — **Sonyea, N. Y.** — Aug. 22, by Commissioner Metal Hygiene, Dpt. Mental Hygiene, Capitol, Albany exit facilities and fire stops at Craig Colony; adv. E. N.-R. July 26.

FRESH AIR CAMP—**Long Beach, N. J.**—Aug. 6 (extended date), by Meyers, Bigelow & Shanley, archts., 24 Walnut St., Newark, general contract 1 and 2 story, basement, brick, steel, plain found. Ocean and Atlantic Aves., for Salvation Army, 120 West 14th St., New York, $200,000. Noted July 19.

PLUMBING, HEATING, etc. — **North Bergen** (Ind. br. Weehawken), **N. J.**—July 26, by Bd. Educ., Municipal Bldg., plumbing, heating, sodding in Schools 1, 2, 3, 5, 6, 7, 8, and 10, $25,000. R. B. Glenn, town engr.

CAUSEWAY—**Youngstown, O.**—Aug. 30, by F. A. La Belle, secy. Bd. Directors Mahoming Valley, Sanctary Dist., 901 City Bank Bldg., West Austintown Causeway, Contr. 9, W. H. Dittoe, ch. engr.; adv. E.N.-R. July 26.

HEATING SYSTEM—**San Antonio, Tex.**—Aug. 7, by Phelps & DeWees, archts., Gunter Bldg., heating system in school; installing oil burning equipment in 6 schools, for Bd. Educ., Russell Bldg.

LIGHTING SYSTEM — **Los Angeles, Calif.**—Aug. 1, by Bd. P. Wks., ornamental lighting system on Beverly Blvd., between Fairfax Ave. and La Cienega Blvd., incl. 2,000 electroliers. To exceed $25,000.

CONTRACTS AWARDED

BABEBALL CAGE—**Exeter, N. H.**—H. W. Andrews, engr., 15 East 40th St., New York, baseball cage, to Sawyer Constr. Co., 16 Arlington St., Boston, Mass., for Phillips Exeter Academy. Est. $25,000. Noted July 5.

AIRPORT and HANGAR — **Seekonk, Mass.** — Providence Airport Corp., J. K. Fenno, 648 Angel St., Providence, R. I., 1 story, 35 x 125 ft., sheet iron, steel airport and hangar, Fall River Rd., to Macomber Steel Co., 88 Broad St., Boston. Est. $30,000.

CULVERTS — **Meadville, Miss.** — See "Streets and Roads."

CULVERTS — **Mendenhall, Miss.** — See "Streets and Roads."

TRANSMISSION LINE—**Alabama**—Alabama Power Co., 600 North 18th St., Birmingham, 58 mi. line from system at Linden, through Thomasville and Grove Hill to Jackson; distribution system at Grove Hill; 31 mi. transmission line from Tuscaloosa to Reform with 2 mi. branch from Gordon and 17 mi. Reform to Kennedy, to Dixie Constr. Co., 600 North 18th St., Birmingham.

CONCRETE SILOS—**Cleveland, O.**—Great Lakes Portland Cement Co., Marine Trust Bldg., Buffalo, N. Y., 6 concrete silos, 100 ft. high 40 ft., inside dimensions, to Dresser Co., The Arcade. Est. $75,000.

RETAINING WALL—**Cleveland, O.** — Comrs. Cuyahoga Co., grading, retaining wall, 5,823 sq.yd. concrete, River Rd., to R. C. Products Co., Engineers Bldg., $54,143. Est. $55,875.

See proposed advertising on page 122

GRAIN ELEVATOR—**Sioux City, Ia.**—Terminal Grain Corp., 630 Grain Exch. Bldg., 500,000 to 1,250,000 bu. grain elevator addition, rein.-con. to Jones-Hettelsater Con.str. Co., Mutual Bldg., Kansas City, Mo. Est. $100,000. Noted July 19.

Materials

PROPOSED WORK

BELL and SPIGOT PIPE—**Belleville** (br. Newark), **N. J.**—Bd. Town Comrs., Town Hall, rejected bids July 3, 34 tons 6 in. Class C bell and spigot pipe. $5,000. Will probably readvertise. A. S. Blank, town engr. Noted June 26.

BIDS DESIRED

BINDER STONE — **Brooklyn, N. Y.** — Aug. 1, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, 6,000 cu.yd. binder stone; 10,000 cu.yd. asphalt sand; 6,500 bbl. portland cement; 4,500 cu.yd. 1½ in. coarse aggregate broken stone or gravel; 6,000 cu.yd. steam cinders.

STEAM ASHES—**Long Island City, N. Y.**—July 30, by B. M. Pattern, pres. Queens Boro, Queens Subway Bldg., 8,000 tons steam ashes in scows alongside dock, at Asphalt Plant 1, Flushing; 10,000 asphalt paving blocks as directed.

PAINT—**New Jersey**—Aug. 13, by State Hy. Comn., Trenton, 7,400 gal. and ready mixed lead, black graphite, tinted graphite and white lead paint. A. L. Grover, ch. engr.; adv. E.N.-R. July 26.

TERRA COTTA PIPE—**Lewiston, Pa.**—Aug. 6, by H. E. Fetterholf, boro secy., 3,980 ft. 5 and 8 in. terra cotta pipe, ninety-five 8 x 5 Ys. and forty 5 in. bends.

ROAD OIL — **Kewanee, Ill.**—Kewanee Twp. Henry Co. in market 10 cars road oil. W. Berg, hy. comr.

ROAD OIL—**Victoria, Ill.**—Copley Twp. Knox Co. in market 3 cars road oil. N. C. Norberg, hy. comr.

CAST IRON WATERMAINS — **Van Alstyne, Tex.**—City taking bids 1,800 ft. 2 in. and 3,700 ft. 4 in. c.i. watermains. Address L. Fife, city clk.

PUMP and MOTOR, etc. — **Drumheller, Alta.**—Aug. 6, by H. A. Brown, secy.-treas., one 1,000 i.g.m. centrifugal pump and motor, 2,000 lin. ft. 6 and 12 in. mains, gate valves, hydrants, special castings, f.o.b. Drumheller.

CONTRACTS AWARDED

SAND CLAMSHELL—**New Orleans, La.**—City Council, City Hall, furnishing sand for next 6 months to Pontchartrain Sand & Shell Co., 2501 Clio St., at $1.15 per cu.yd.; next 6 months' clamshell supply order as needed., to A. G. Thomas, New Orleans, Bank Bldg. $1.43.

STEEL RAILS — **Detroit, Mich.** — Dpt. Street Rys., St. Jean and Shoemaker Aves., 250 tons 140 lb., and 50 tons 150 lb. steel rails, f.o.b. Detroit, to Lorain Steel Co., at $71 and $86 per ton respectively.

Foreign Machinery Requirements

Johannesburg—South African Railways and Harbors want bids for equipment on or before the dates given. Aug. 9: six electrically driven overhead traveling cranes. Aug. 2: one electrically driven concrete mixing plant consisting of self-propelling gantry arranged to carry mixer, side loader for charging it and two skips to carry mixed concrete to the block molds; one stone crusher. Aug. 23: 4,100 rolls of roofing felt.

Melbourne—State Electricity Commission of Victoria wants bids on Oct. 31 for supplying and erecting water tube boilers with auxiliary and accessory equipment. Specifications may be had for £1, 1s., Agent General for Victoria, Victoria House, Melbourne Place, Strand, W. C. 2, London. Bids wanted Aug. 8 by Victorian Railway Commissioners on one hydraulic pump with motor and control apparatus. On Aug. 22, one multiple drilling machine, complete.

Bogota—Aug. 27, Colombian Ministry of Public Works, one 36-ton breakdown and bridge crane and one 7- or 8-ton crane with hammer equipment for meter-gage track. Sept. 3, ten locomotives, type 2-6-2, with side tanks; weight in service 39 metric tons. Sept. 10, one 20-ton electric overhead traveling crane.

UNIT PRICES

Water-Works Improvements—Ada, Okla.

City opened bids Jan. 19 water-works improvements. Involves 11 mi. 24 in. c.i. pipe flow line with working head up to 200 ft. Roofing over and protecting spring requires 76,000 lb. structural steel, 8,400 sq.ft. roofing and 200 cu.yd. conc. Roofing over clear well, 700 cu.yd. rein.-conc., 350 tons pipe; distribution system, 430 tons Class B c.i. pipe and specials, 60 fire hydrants, 20 gate valves. Bidders are: (A) J. Randolph Contracting Co., Jacksonville, Fla., (awarded contract Sections II and IV); (B) Pittsburgh-Des Moines Steel Co., Des Moines, Ia.; (C) G. M. Brown, McAlester, (awarded contract Sections I and III); (D) Standard Paving Co., Tulsa; (E) Whitmire Construction Co., North Kansas City; (F) Spotts & Malcolm, Loveland, Colo.; (G) Floyd Shafner, Springfield, Ill.; (H) Repass Bros., Des Moines; (I) Chanute Construction Co., Kansas City. Unit bids follow:

	A	B	C	D	E	F	G	H	I
SECTION I—SPRING IMPROVEMENTS									
20 cu.yd. earth excav.	$0.80	$1.50	$1.00	$1.00	$3.00	$2.50	$2.50	$1.00	$1.00
70 cu.yd. loose rock excav.	1.00	3.00	2.50	2.00	2.00	5.00	5.00	5.00	2.00
15 cu.yd. solid rock excav.	6.00	5.00	5.50	5.00	2.00	10.00	6.00	7.00	5.00
230 cu.yd. earth borrow	1.00	1.50	.50	.60	.60	.60	.40	.60	.50
Cut-off Walls, Columns, etc.:									
105 cu.yd. conc.	25.00	37.00	19.90	22.00	30.00	36.00	25.00	30.00	25.00
908 sq.ft. steel sheet piling	2.00	1.50	1.40	1.50	1.00	5.00	1.30	4.00	.76
1 sluice gate, 36 in. (lump sum)	450.00	525.00	450.00	600.00	515.00	500.00	475.00	600.00	425.00
Cutting down old wall (lump sum)	100.00	125.00	.....	200.00	60.00	100.00	335.00	75.00	100.00
Valve house (lump sum)	200.00	260.00	124.00	300.00	146.00	230.00	200.00	250.00	150.00
Spring House roof (lump sum)	12,000.00	10,000.00	8,550.00	8,700.00	10,000.00	11,500.00	10,725.00	10,000.00	9,200.00
Levee:									
881 cu.yd. earth borrow	.80	1.50	.50	.40	.70	.50	.40	.50	.40
528 sq.yd. 12 in. stone rip rap	2.00	3.00	1.00	1.75	2.00	4.00	1.90	3.00	1.75
528 sq.yd. 4 in. conc. slope paving	2.25	3.50	1.85	2.25	1.70	2.20	2.00	2.50	1.75
SECTION II—FLOW LINE									
6,225 ft. 20 in. pipe for 100 ft. pressure:									
Cast iron, lead joints	4.80	5.65	.....	5.23	4.87	5.25	5.30	5.53	4.70
Cast iron, leadite joints	4.50	5.50	.....	5.03	4.77	5.15	5.20	5.34	4.60
16 air vent manholes	200.00	150.00	.....	110.00	90.00	150.00	191.00	100.00	85.00
15 blow-off valves	100.00	63.00	.....	45.00	63.00	100.00	135.00	54.00	140.00
3 surge chambers (lump sum)	10,500.00	12,100.00	.....	10,000.00	8,200.00	15,700.00	10,668.00	10,150.00	11,886.00
Cut-over connection (lump sum)	500.00	750.00	.....	850.00	900.00	600.00	650.00	550.00	450.00
145 cu.yd. conc. for pipe protection	20.00	30.00	.....	20.00	20.00	20.00	16.00	30.00	15.00
SECTION III—CLEAR WELL IMPROVEMENTS									
235 lin.ft. 20 in. by-pass line	11.00	.....	.....	9.75	7.48	5.80	8.25	4.20	.....
Setting meter (lump sum)	100.00	225.00	269.00	275.00	.....	300.00	100.00	185.00	170.00
Discharge header:									
Sand cast pipe (lump sum)	1,800.00	2,000.00	2,000.00	2,000.00	2,262.00	1,897.00	.....	.....	1,797.00
Centrifugally cast pipe (lump sum)	1,750.00	1,950.00	1,950.00	1,900.00	2,230.00	.....	2,092.00	900.00	.....
Clear well roof (lump sum)	22,000.00	30,000.00	22,500.00	18,000.00	23,750.00	31,000.00	27,772.50	22,000.00	24,479.00
SECTION IV—DISTRIBUTION SYSTEM									
7,050 ft. 12 in. c. i. pipe:									
Sand cast, lead joints	2.10	2.60	.....	2.45	2.48	2.40	2.50	2.66	2.55
Centrifugally cast, lead joints	2.00	2.35	.....	2.25	2.28	2.25	2.42	2.46	2.45
Sand cast, leadite joints	2.00	2.55	.....	2.38	2.43	2.35	2.45	2.57	2.50
Centrifugally cast, leadite joints	1.90	2.30	.....	2.18	2.23	2.15	2.37	2.37	2.40
3 valves, 12 in.	85.00	100.00	.....	85.00	100.00	95.00	85.00	95.00	84.00
15 hydrants, 6 in.	56.00	60.00	.....	65.00	66.00	75.00	62.00	70.00	61.40
Totals: Section I	$19,358	$19,723	$13,875	$15,121	$16,661	$22,940	$17,478	$20,080	$14,816
Section II	321,482	390,991	.....	338,604	331,549	372,388	353,262	363,120	321,086
Section III	26,435	34,325	26,556	22,466	28,138	34,560	31,903	24,072	28,086
Section IV	25,426	29,645	.....	27,211	27,366	27,583	30,158	29,525	30,571

Engineering News-Record, Issue of July 26, 1928.

An Index of Municipal Bridge Costs

Bancroft Hill of Baltimore described in the *Annalist* of New York, June 29 issue, an index number showing the cost trend of Baltimore city bridges from 1905 to 1927, based on 1925 as 100. W. W. Pagon collaborated with Mr. Bancroft. The index was based on an inventory of bridge property of the United Railways and Electric Company of Baltimore, an adjustment being made to cover the difference between city bridges and street railway bridges. "The index was made," says Mr. Bancroft, "by dividing the base cost of a large number of bridges among the fourteen elements which formed the chief part of their construction. With these costs went the incidentals, contractors' expenses and overhead where they were not generally distributed over all costs. By this method was found the distribution of the average 1925 bridge dollar among the fourteen principal elements. That is, in that dollar were 10c. for tiles in place, with overhead and incidentals; 13.4c. for common labor, and so on for the balance of the elements." This index has stood exactly at 200 since 1923. It has been used to check reproduction costs of bridges where the prices and reproduction estimates were known and the results have shown a remarkable accuracy, according to Mr. Bancroft. The data on which it is based have also been used to check reproduction costs of wharves and piers and results were quite close.

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